DME®

DME

INDUSTRIAL SUPPLIES

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Terms & Conditions of Sale

DME COMPANY LLC ("SELLER")

1. ACCEPTANCE OF TERMS: Seller's offer is expressly conditioned upon Buyer's acceptance of these Terms and Conditions, and Seller expressly objects to any additional or different terms proposed by Buyer. Any subsequent purchase order issued by Buyer shall constitute Buyer's agreement to these Terms and Conditions. Any contrary terms and conditions contained in any purchase order, facility entry form, or other instrument issued by the Buyer are expressly rejected and shall not apply to this transaction. Unless otherwise specified in the quotation, Seller's quotation shall expire 30 days from its date and may be modified or withdrawn by Seller before receipt of Buyer's conforming purchase order.

2. PAYMENT TERMS: Payment is due in accordance with any applicable progress, advance or other agreed upon payment schedule, or, if no such schedule has been agreed to, no later than 30 days from the date of invoice. Buyer shall pay a late payment charge computed at the lower of 1.5% per month on any overdue balance, or the maximum rate permitted by law. No cash discount is provided. If at any time Seller reasonably determines that Buyer's financial condition or payment history does not justify continuation of Seller's performance, Seller shall be entitled to require full or partial payment in advance or otherwise restructure payments, request additional forms of payment security, suspend its performance or terminate the order.

3. DELIVERY

3.1 In the United States, products are sold FCA Incoterms 2020 point of origin; for export sales, terms are FCA Incoterms port of export. Unless otherwise agreed in writing, title and risk of loss shall pass at the time of shipment. Buyer is responsible for all taxes, duties, fees, or other governmental charges related to its purchase of goods, with the sole exception of taxes on Seller's income. Unless otherwise agreed, Buyer shall pay all packing and delivery costs.

3.2. Seller's quoted lead times and targeted delivery dates are good faith estimates and are not binding on Seller. Buyer's acceptance of delivery of Seller's products from the carrier shall constitute a waiver of any claim for delay. If Seller notifies Buyer that the products are ready for shipment and Buyer delays delivery, then Seller may charge Buyer a storage fee equal to 1.5% of the contract price per month for each month of delay. Such storage fees are in addition to any other remedies Seller may have.

3.3. Buyer shall have a reasonable opportunity to inspect any products prior to shipment. Products shall be deemed to be accepted upon the earlier of: (i) inspection at Seller's plant (provided that no reasonable objection is then raised by Buyer), or (ii) if no inspection is requested, then at shipment. If an objection is made during inspection, then Products shall be deemed accepted upon resolution of the objection by Seller.

4. WARRANTY:

4.1. Seller's express product warranty be as stated in DME's order specification documentation and shall run from the date of shipment (the "Warranty Period"). During the Warranty Period, Seller warrants that the products and services sold hereunder will be free from material defects in material, workmanship and title (the "Warranty").

4.2. If, during the Warranty Period, Seller reasonably determines that the products do not meet the Warranty, then Seller shall, at its option, repair or replace the defective product or component thereof, reperform any defective services at Seller's expense, or refund or credit to Buyer its purchase price for the defective products or services.

4.3. The Warranty will be void and will not apply: (i) when Buyer fails to promptly notify Seller of any alleged defect, (ii) when Buyer fails to properly install, maintain, or operate the products, (iii) to any product or parts thereof with a useful life, under normal operating conditions, inherently shorter than 1 month, or (iv) to products which were not made by Seller or any of Seller's affiliates, provided that in such cases Seller shall use reasonable efforts to pass on to Buyer the manufacturer's warranty.

4.4. If Seller provides any parts or services to repair a product that is not under Warranty, then such parts and services will be billed to Buyer at Seller's prevailing rates for time and materials.

4.5. The Warranty set out above is the sole and exclusive warranty provided by Seller for its products and is in lieu of, and Seller expressly disclaims, all other warranties, express or implied, oral, written or statutory. THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE FOR SELLER'S PRODUCTS.

5. LIMITATION OF LIABILITIES:

5.1. Seller's total liability to Buyer arising out of or resulting from this Contract or related in any way to Seller's products or parts thereof shall not exceed the contract price for such products.

5.2. Seller shall not be liable for loss of profit or revenues, loss of use of products, interruption of business, downtime costs, increased operating costs, or any special, consequential, incidental indirect or punitive damages, whether incurred by Buyer or Buyer's customers.

5.3. Because the conditions of actual production in each end user's plant vary considerably, Buyer assumes all risk for the results obtained by use of Seller's products in the practice of any process, whether in terms of operating costs, general effectiveness, success or failure, and regardless of any oral or written statements made by Seller related to the use of its products.

6. SECURITY INTEREST. Buyer agrees that the Seller shall have and retain a purchase money security interest in the Products securing the payment of all sums becoming due hereunder. Such security interest shall attach, upon completion of manufacture, to the Products and to any parts or accessories attached to the Products and to the proceeds of any sale thereof. Buyer represents that the Products are being acquired for use in its business and that such Products will not, without prior written consent of the Seller, be sold or removed from the Buyer's place of business to which delivery is made. Buyer agrees upon Seller's request to execute any financing statements or other documents required to perfect, continue or renew Seller's security interest in the Products.

7. CANCELLATION: Unless otherwise agreed, Buyer may cancel all or any part of the order by written notice received by Seller before the completion of the order. On receipt of such cancellation notice, all work on the order or part thereof canceled will be stopped as promptly as is reasonably possible. Buyer will then be invoiced for and will pay to Seller as liquidated damages a cancellation charge. For completed items, the charge will be equal to their established prices. For items not completed, the charge will be equal to 135% of Seller's full cost as determined by Seller in accordance with Seller's standard accounting practices (which includes burden and overhead), plus a charge for any packing and storage, less a credit for the balance of the material as scrap.

8. RETURNS: All returned items require a Return Merchandise Authorization (RMA) number from DME. Returns are subject to a quality inspection to validate whether it can be returned to inventory. Mold bases, plates, special components, made-to-order products and other date-sensitive products are non-returnable items. Items returned to DME without prior authorization(RMA)may be returned to sender. Items returned for stated defect or non-conforming reason require detailed explanation. No products are returnable beyond 30 days after receipt.

9. CONFIDENTIALITY. Any nonpublic information, including without limitation, Seller's pricing information and the contents of Seller's quotation or proposal and Buyer's purchase order, exchanged between the parties is deemed confidential ("Confidential Information"). Each party agrees to maintain the other party's Confidential Information in confidence, to not disclose the same to any third parties, and to use it only in connection with this sale. These restrictions shall expire two (2) years after the date of disclosure. This provision does not modify or supersede any separate confidentiality or nondisclosure contract signed by the parties.

10. FORCE MAJEURE: Seller shall not be liable for any delay in performance or nonperformance which is due to war, fire, flood, pandemic, acts of God, acts of third parties, acts of governmental authority or any agency or commission thereof, accident, breakdown of products, differences with employees or similar or dissimilar causes beyond Seller's reasonable control, including but not limited to, those interfering with production, supply or transportation of products, raw materials or components or Seller's ability to obtain, on terms Seller deem reasonable, material, labor, products or transportation.

11. MERGER CLAUSE: This Contract entirely supersedes any prior oral or written representations, correspondence, proposals, or contracts between the parties regarding the products. This writing constitutes the final and total expression of such contract between the parties, and it is a complete and exclusive statement of the terms of that contract.

12. ASSIGNMENT: Neither party may assign this Contract without the written consent of the other party, except that Seller may assign this Contract to a third party that acquires substantially all of Seller's assets and Seller may assign the flow of funds arising out of this Contract.

13. COMPLIANCE WITH LAWS. Each party agrees to comply with all applicable laws in the performance of its obligations; Buyer shall not trans-ship, re-export, divert or redirect Products outside of the original country of delivery without Seller's prior written consent.

14. GOVERNING LAW: This Contract shall be governed by and construed in accordance with the laws of the State of Michigan, without regard to the Convention for the International Sale of Goods (CISG), which shall not apply.

U.S.A.

TERMS AND CONDITIONS OF SALE: See previous page.

PHONE ORDERS – TOLL FREE: 800-626-6653. DME's Customer Service Dept. operates Monday through Friday from 7 a.m. to 5 p.m. E.S.T. Calls can be made from anywhere in the continental U.S. and Puerto Rico (Puerto Rico: use "137" prefix instead of "1"). Our Customer Service Representatives will be happy to answer your questions on DME products or services, provide on-the-spot feedback on product availability and shipping details, or take any messages you wish relayed to your local DME sales, manufacturing or technical service representatives.

eSTORE: store.DME.net - 24/7 price and availability of tens-of-thousand of products.

EMAIL ORDERS: Orders can be emailed to DME@DME.net

CHECKS OR MONEY ORDERS: When paying invoices by check or money order, please make payable to DME Company, include remittance copy of invoice and mail to:

- DME Company, PO Box 854867 Minneapolis, MN 55485-4867

PICK-UPS AND RETURNS: In urgent cases product in stock at Evan's Distribution Systems (18765 Seaway Dr., Melvindale, MI 48122) may be able to be picked up through 4:30pm rather than being shipped. Please inquire with customer service when placing your order. Products being returned or those under warranty needing repair should be processed through Customer Service (DME@DME.net or 800-626-6653) and returned as instructed.

SPECIAL MACHINING SERVICES: Prints for quotation on special machining work can be sent by EDI to: DME_cad@DME.net.

To obtain price and delivery on special mold base orders or to check status of work in progress please contact Customer Service at DME@DME.net.

CANADA

TERMS AND CONDITIONS OF SALE: See previous page.

PHONE ORDERS: Contact our Ontario office at 800-387-6600

EMAIL ORDERS: DME_Canada@DME.net

CHECK OR MONEY ORDERS: Make payable to DME Company. Include remittance copy of invoice and mail to:

- DME Company 233 Armstrong Ave., Oldcastle, ONT L7G 4X5

WALK-IN ORDERS, PICK-UPS, RETURNS, AND SPECIAL MACHINING: Contact our office.

Credit Application

Fax completed form-both sides-to (248) 544-5488 or email credit_application@dme.net

Customer Number: _____

Legal Name: _____ Date: _____

Trade Name (D.B.A.): _____ Phone: ( ) _____

Ship to Address: _____ City: _____ State: _____ Zip _____

Bill to Address: _____ City: _____ State: _____ Zip _____

Contact Person(s): _____ Phone: ( ) _____

Estimated Annual Sales: _____ Estimated Weekly Credit Requirements: _____

Are Statements Required: (Yes): _____ (No): _____ Are P.O. Numbers Required: (Yes.): _____ (No): _____

Injection Molder: _____ Die Caster: _____ Mold Maker: _____ Other: _____

Date the Present Owners Assumed Control of the Business: _____ _____

Federal Employer I.D. Number: _____ Social Security Number: _____

Building/Facilities: Owned: _____ Leased: _____

Mortgage Holder Name: _____ Lessor Name: _____

Is There Any Pending Litigation Against You or Your Business: (Yes): _____ (No): _____ If Yes, See Below:

Plaintiff: _____ Amount of Controversy: _____

Has the Applicant or any of the Business Owners Ever Filed for Bankruptcy? Business: (Yes): _____ (No): _____ Personal: (Yes): _____ (No): _____

Authorization for Release of Credit Information: The undersigned hereby authorizes all Bank and Trade References for the above named Credit Applicant to release any information to DME Company and/or affiliates for the purpose of obtaining credit.

_____ _____

Signed By Date

Bank Reference:

Bank: _____ Acct. No. _____ Phone: ( ) _____

_____ Officer: _____

_____ (No): _____ Loan: (Yes): _____ (No): _____

Trade References (To Speed Process - Fax Numbers of All References are Required):

Name	Address	Phone	Fax
		( )	( )
		( )	( )
		( )	( )
		( )	( )
		( )	( )
		( )	( )

Check One: Corporation: _____ L.L.C. _____ Partnership: _____ Sole Proprietorship: _____

If a Corporation or L.L.C, Year Incorporated: _____ State of Incorporation or Formation: _____

Credit Application

Corporation or L.L.C

Corporate Name: _____

President: _____ (Name) _____ (Home Address) (_____) (Home Phone) _____ _____ (S.S. No.)

Vice President: _____ (Name) _____ (Home Address) (_____) (Home Phone) _____ _____ (S.S. No.)

Partnership or Sole Proprietor

Owner: _____ (Name) _____ (Home Address) (_____) (Home Phone) _____ _____ (S.S. No.)

Owner: _____ (Name) _____ (Home Address) (_____) (Home Phone) _____ _____ (S.S. No.)

List Percentage Ownership of Each Owner: _____

I/We understand that we are required if possible to furnish a copy of our most recent financial statement for your confidential use and credit purposes. All new accounts will be shipped on a C.O.D. basis until credit is approved by the DME Credit Department. (Unrated accounts requesting credit may require a personal guarantee of officers of the corporation and the principal stockholders.)

When credit accommodations are extended, payments are to be sent to remittance address stated on invoice, in accordance with the credit terms that are granted. I/We agree to pay a finance charge equal to the Lesser of 1½% per month or the maximum amount permitted under applicable law on any amount "past due sixty (60) days and over."

In the event payment to DME and/or affiliates is received in the form of check or draft, the undersigned account shall receive immediate credit for the amount included therein, provided, that if any check is returned or refused by the bank for any reason, the credit previously entered on the records shall be considered null and void and interest shall begin to accrue thereon. Any returned check shall result in a $30.00 assessment which will be paid immediately. DME and/or affiliates shall have the right to demand payment of the returned check(s) in CASH or CERTIFIED funds immediately upon said notification.

Applicant hereby assigns, transfers and sets over to DME and/or affiliates in the event of fire, explosion, riot or other destruction caused by an insurable event, all of his/hers/its right, title and interest in any policy of fire or casualty insurance to the extent of his/her/its then outstanding balance to DME and/or affiliates and authorizes DME and/or affiliates to deal directly with his/her/its insurance carrier for the collection of the same. The name and address of applicant's insurance agent or company is:

_____ *Agency* _____ *City* _____ *State* _____ *Zip*

For the purpose of obtaining Open Account Credit, I/we state the above information is true and correct, that I/we have authority to apply for credit on behalf of the herein named business and that I/we hereby attest to the Company's solvency.

Date: _____ Signed By: _____ Title: _____

Date: _____ Signed By: _____ Title: _____

Individual/Joint Personal Guaranty

To: DME Company and/or affiliates

I/We, _____ in order to induce DME and/or affiliates, creditor company, to grant present and/or future financial accommodations to _____, herein referred to as "COMPANY", do hereby irrevocably and unconditionally guarantee payment to DME and/or affiliates for all indebtedness of any sum due from the Company whenever the Company fails to pay same upon demand. I/We do hereby waive notice of default and non-payment (and consent to any modification or renewal of the credit arrangement.) If this is signed by one or more than one person authorized to act on behalf of the Company, it shall be the joint and several obligation of all officers and owners and principal stockholders of such Company. If any balance is turned over to a collection agency or any attorney for collection, I/we agree to pay attorney and/or collection fees.

_____ Print Name _____ SS No.

_____ Guarantor Signature

_____ Date

_____ Witness _____ Print Name

_____ Print Name _____ SS No.

_____ Guarantor Signature

_____ Date

_____ Witness _____ Print Name

Order Form

Fax this order form to: 248-544-5113
or email to: dme@dme.net

Name:	Account Number:
Company:	P.O.#
Shipping Address:	Billing Address:
Phone#:	Fax#:
Email:	Pickup:
	Other:
Special Instructions:	Ship Partial:
	Hold for Complete:

Quantity	Part Number	Description	Price Each

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Resin Handling Bins

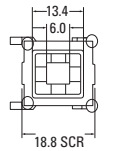
Ideal for Storage and Transfer of Material
From Grinders, Surge Bins, Bags, Drums or Gaylords

Resin Bins Features:

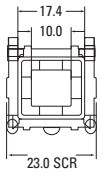
- Mobile
- Self-emptying
- Durable
  One piece reinforced lid
  suitable for mounting equipment
- Lightweight
  Easily view contents-polyethylene construction
- Stackable
  RB90L, RB175L and RB400L only
- Stainless steel slidegate
- Vacuum wand access tube
  4″ diameter opening
  (exception: RB90L has a 2.75″ dia. opening)
- Heavy-duty welded steel frame
- Forklift channel
  RB1200L and RB1200LC
- Locking casters
  Standard and included with RB90L, RB175L and RB400L

RESIN HANDLING BINS

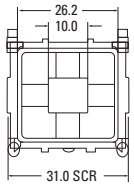
	Stackable			Non-Stackable			
Part Number	**RB90L**	**RB175L**	**RB400L**	**RB800L**	**RB800LC**	**RB1200L**	**RB1200LC**
Capacity	81lbs	158lbs	368lbs	800lbs	800lbs	1200lbs	1200lbs
Volume	2.3 CF	4.5 CF	10.5 CF	22.7 CF	22.7 CF	34.2 CF	34.2 CF
Size (L × W × H)	18.8″ × 18.8″ × 30.1″	23″ × 23″ × 37.6″	31″ × 31″ × 42.8″	37.5″ × 37.5″ × 47.4″	37.5″ × 37.5″ × 52.4″	43.5″ × 43.5″ × 51.7″	43.5″ × 43.5″ × 56.7
Casters	(4) 4″ toe-locking, full swivel casters INCLUDED!			NONE	(4)5″ casters: (2) fixed + (2) swivel & toe locking	NONE	(4)5″ casters: (2) fixed + (2) swivel & toe locking
Holds	1+ bags	3+ bags	1+ drum	2+ drums	2+ drums	1+ gaylord	1+ gaylord



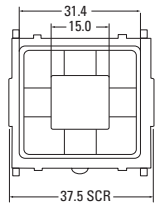
VOLUME = 2.3 Cu. Ft
CAPACITY = 81 Lbs.
(STACKABLE)



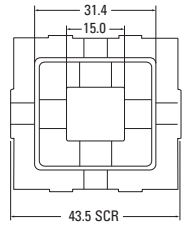
VOLUME = 4.5 Cu. Ft
CAPACITY = 158 Lbs.
(STACKABLE)



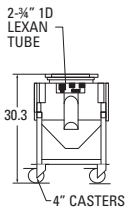
VOLUME = 10.5 Cu. Ft
CAPACITY = 368 Lbs.
(STACKABLE)

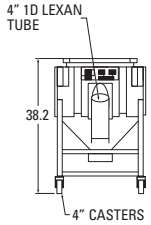


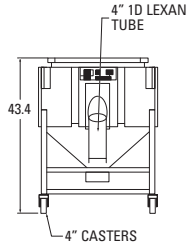
VOLUME = 22.7 Cu. Ft
CAPACITY = 800 Lbs.
(NON-STACKABLE)

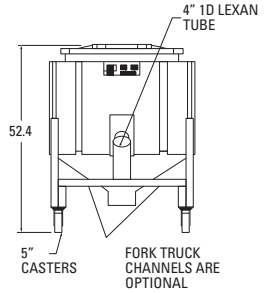


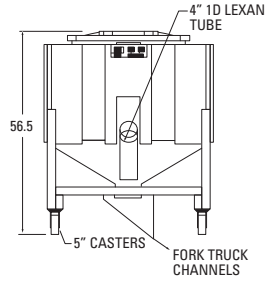
VOLUME = 34.2 Cu. Ft
CAPACITY = 1200 Lbs.
(NON-STACKABLE)











On the following pages are listed the finest tilters, mixers, dumpers and storage bins in the industry today. Our equipment is constructed of high-grade steel and covered with a durable epoxy blue coating. The overall superior designs stem from many years in the manufacturing field, with frequent design refinements along the way to incorporate the changing needs of the industry.

We steadfastly stand behind all of our equipment with one of the most comprehensive guarantees in the industry - a FULL TWO-YEAR WARRANTY. We can also customize any of these items to suit whatever application you need.

Warranty

These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Pneumatic Gaylord Tilter

Pneumatic Gaylord Tilter is designed to assist in the vacuum unloading of gaylord containers. The automatic tilting feature allows complete removal of material from the container with little or no assistance from your operator. The adjustable regulator permits setting initial lift at any desired weight. This unit will lift 1,400 lbs. with only 80 psi. air pressure! Normal operation is to begin tilting action when the box is around half empty. Tilt tables are durable and easy to maintain. We use heavy-duty pillow block bearings to ensure smooth controlled pivoting. Our 10 gauge top deck is reinforced with structural steel to make it durable enough to withstand years of abuse. These units will reduce labor costs by freeing your operator from tending his raw material flow. They also reduce material waste with the effortless, complete emptying of your container.

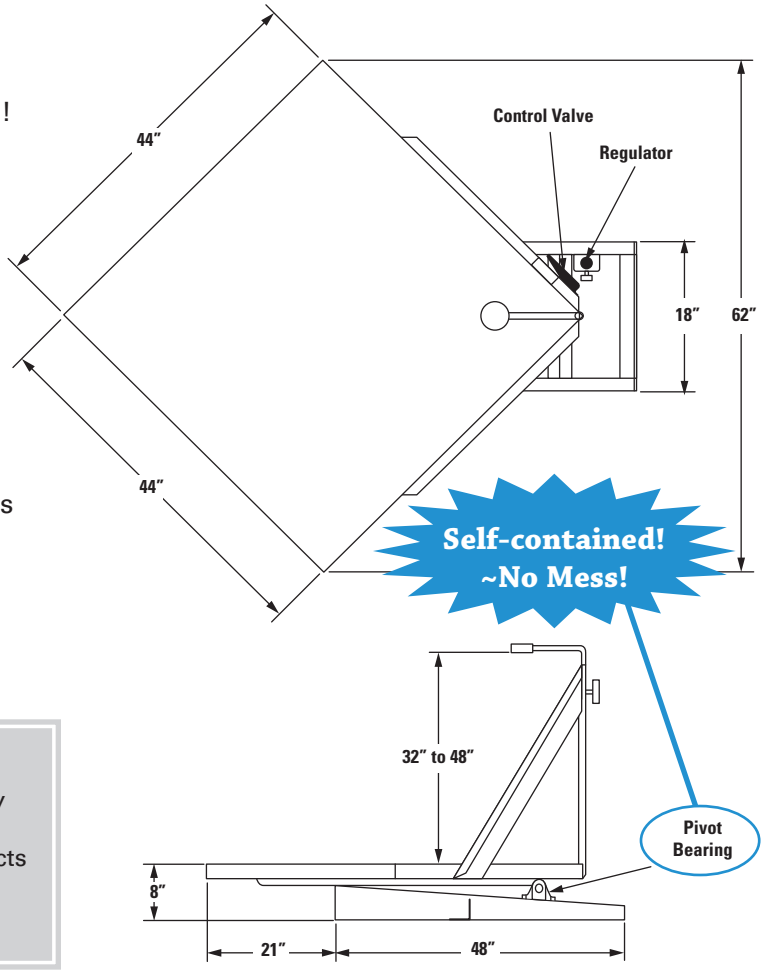
PNEUMATIC GAYLORD TILTER

Standard Features:

- 1" pillow block pivot bearings
- Double convoluted industrial air bag - set up so bag cannot get overstressed!
- Automatic or manual tilt action
- Hand level controlled
- Flow control to adjust operating speed
- 10 gauge steel deck
- Adjustable height vacuum wand holder
- 45° tilt angle
- – Painted blue epoxy

Optional Features:

- Foot pedal control valve
- Pneumatic turbine vibrator with controls
- 110 volt electric vibrator with controls
- – Custom paints and matching colors

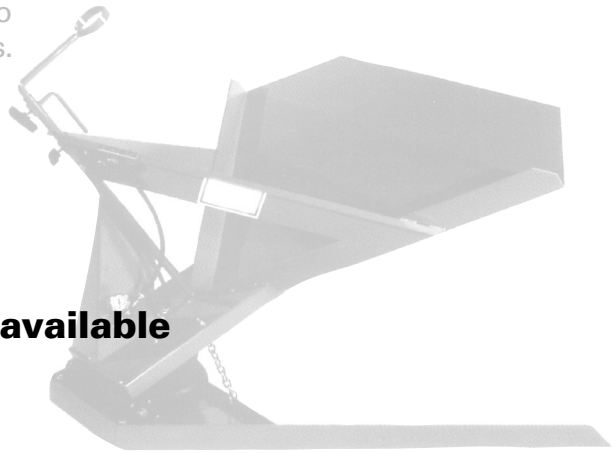


Part Number TT1
Low Price

Warranty
These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Ground Entry Pneumatic Gaylord Tilter

Ground Entry Pneumatic Gaylord Tilter is designed to assist in the vacuum unloading of gaylord containers. The automatic tilting feature allows complete removal of material from the container with little or no assistance from your operator. The adjustable regulator permits setting initial lift at any desired weight; this unit will lift 800 lbs with only 80 psi. air pressure! Normal operation is to begin tilting action when the box is around half empty. Tilt tables are durably constructed of structural steel and heavy-duty pillow block bearings to ensure smooth controlled pivoting. Our seven gauge top deck is reinforced with structural steel to make it durable enough to withstand years of abuse. These units will reduce labor costs by freeing your operator from tending to raw material flow. They also reduce material waste with the effortless, complete emptying of your container.



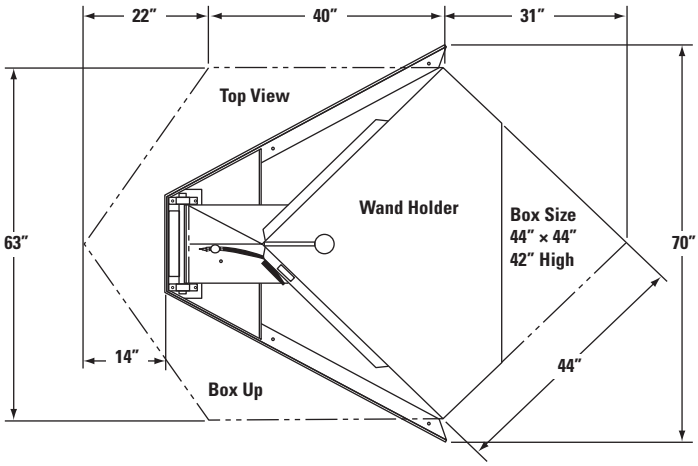
This product is no longer available

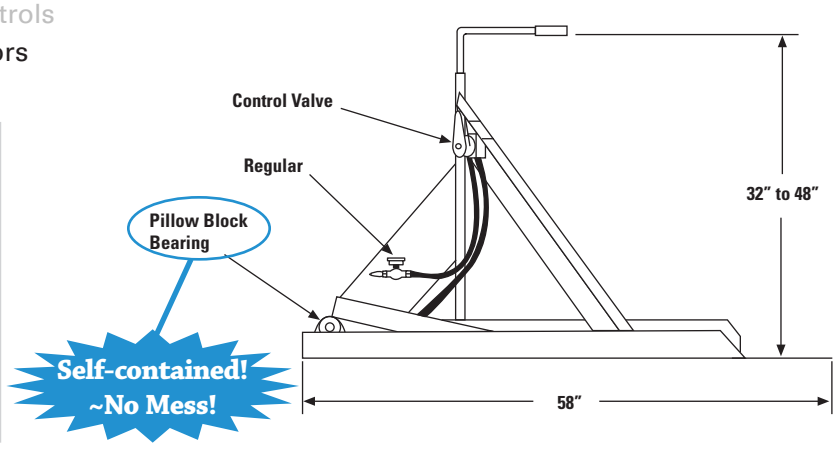
Standard Features:

- 1" pillow block pivot bearings
- Double convoluted industrial air bag - set up so bag cannot get overstressed!
- Automatic or manual tilt action
- Hand level controlled
- Flow control to adjust operating speed
- 7 gauge steel deck
- Adjustable height vacuum wand holder
- 45° tilt angle
- – Painted blue epoxy

Optional Features:

- Foot pedal control valve
- Pneumatic turbine vibrator with controls
- 110 volt electric vibrator with controls
- – Custom paints and matching colors





Warranty

These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Premier Gaylord Tilt Table

The Premier Ground Entry Gaylord Tilt Table is designed to assist in the vacuum unloading of gaylord containers. The automatic tilting feature allows complete removal of material from the container with little or no assistance from your operator. The adjustable regulator permits setting initial lift at any desired weight; this unit will lift 1000 lbs. with only 80 psi. air pressure! Normal operation is to begin tilting action when the box is around half empty. These tilt tables are durable and easy to maintain. We use heavy duty 1" flange bearings to ensure smooth controlled pivoting. Our seven gauge deck along with its sound structural design make it durable enough to withstand years of abuse. These units will reduce labor cost by freeing your operator from tending to raw material flow. They also reduce material waste with the effortless, complete emptying of your container!

PREMIER GAYLORD TILT TABLE

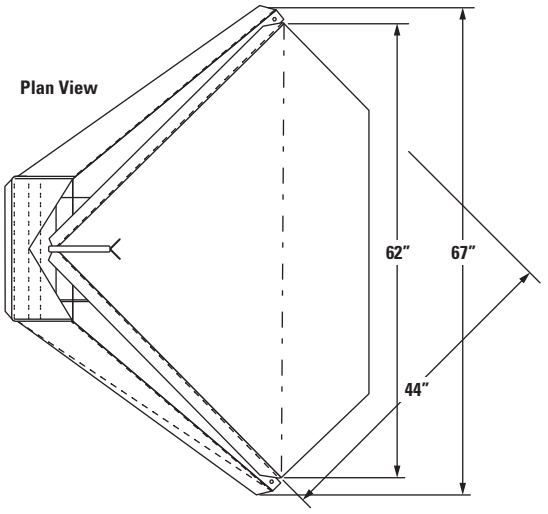
Standard Features:

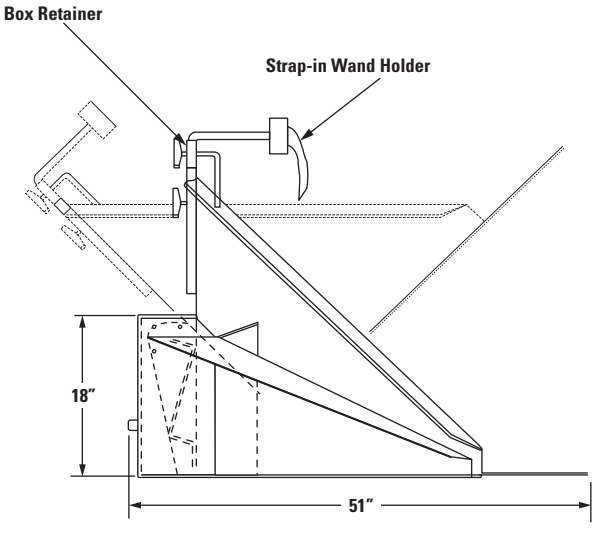
- Automatic or manual tilt action
- Hand level controlled
- Flow control to adjust down cycle speed
- 7 gauge steel deck
- Adjustable height vacuum wand holder
- 1" flanged pivot bearing
- Double convoluted industrial air bag
- 45° tilt angle
  - Painted blue epoxy

Optional Features:

- Foot pedal control valve
- Pneumatic turbine vibrator w/controls
  - Special paint colors

Part Number TT3
Low Price



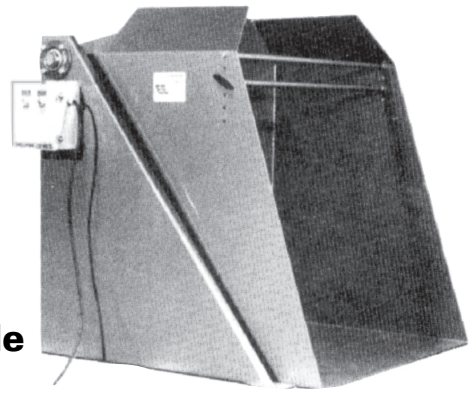


Industry-leading two-year warranty on all parts and workmanship!

Premier Hydraulic Dumper

The Premier Hydraulic Box Dumper is designed and built for continuous operation. It features 2″ piloted roller bearings at the main pivot and bronze sleeve bearings at the top cylinder mounts. We use a proven 1.5 h.p. hydraulic package with easy to service components and a separate oil reservoir.

Designed for increased safety, this unit has solid side panels on the frame and a wider clearance between the frame and bucket to eliminate pinch points. The unit can be stopped anywhere in the
up and down cycle simply by releasing the push button control.



This product is no longer available

Our standard units all have 2,500 lbs. lift capacity and a gravity return. Units are powered by a pair of 2″ bore, 2″ rod, ram-style cylinder. Special dust control and other hooded units use cylinders with a 3″ bore and are powered on both the up and down cycles.

Premier Hydraulic Dumper		
Part Number	**Phase**	**Bucket**
35-2500	3	48″ Wide
35-2550	1	48″ Wide

Premier Hydraulic Dumper Standard

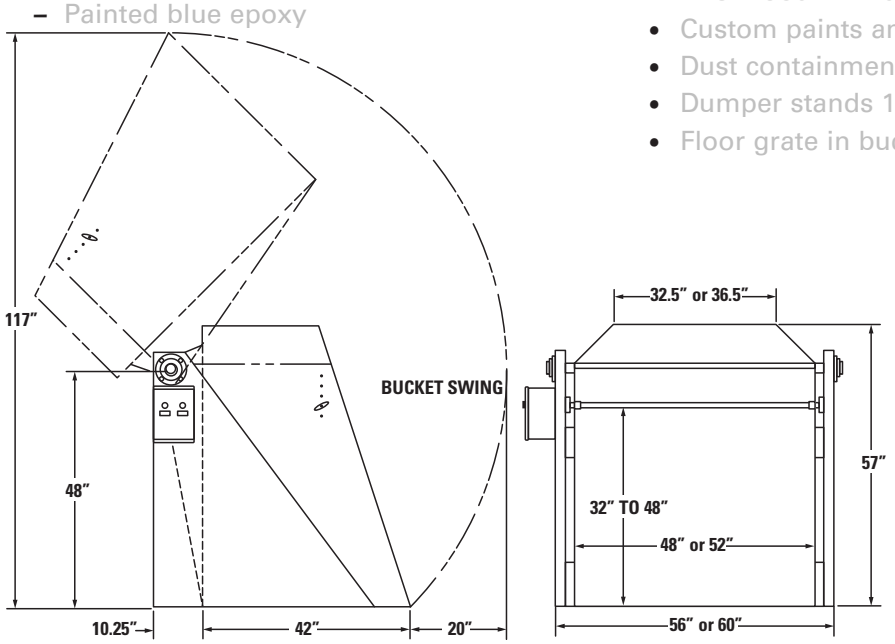
Features:

- Bucket rotation 135°
- Motor 1.5 h.p.
- NEMA 12 electrical enclosure
- Hydraulic cylinders w/24″ stroke, 2″ bore, 2″ rod
- Adjustable retaining bar 32″ to 48″
- Up cycle completion, limit switch
- Down cycle low control valve
- Cycle time - 30 sec. up, 15 sec. down
- Replaceable pivot bearings
  - Painted blue epoxy

Optional Features:

52″ Wide bucket available!

- Velocity fuse, (catches bucket in case of hydraulic rupture)
- Double-acting hydraulics
- Explosion-proof electrical
- Gaylord entry guides
- Stainless steel chute liner
- Custom sized and shaped buckets
- Stainless steel construction
- Dust hood with discharge hatch
- Custom paints and matching colors
- Dust containment doors on bucket
- Dumper stands 12″ to 72″
- Floor grate in bucket



Warranty

These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Hydraulic Box Dumper

This Hydraulic Dumper is built to handle the tough unloading jobs! Standard unit capacity is 2,500 lbs.; larger capacities are available. This unit features a full 7 gauge body, a field-proven hydraulics system, and a microswitch controlled cycle com-ple tion to prevent premature cylinder packing failure. The 48″ width body has room
for most containers, but special widths are available as well. The box retainer is adjustable from 32″ to 48″, plus there's also a permanent safety retainer bar! Abrasion-resistant epoxy painted blue. Push button controls permit stopping the unit at any point in the cycle for added control and safety. This Hydraulic Dumper turns a tough, time-consuming job into a 30 second breeze!

This product is no longer available

HYDRAULIC BOX DUMPER

Hydraulic Box Dumper Speci ications:

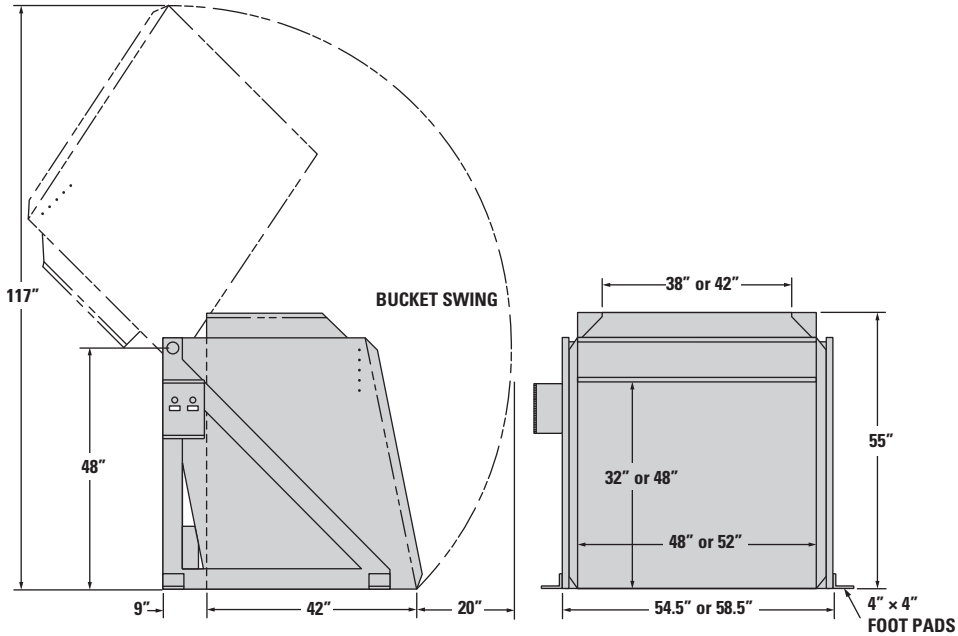
- Lift capacity: 2,500 lbs.
- Total rotation: 135°
- Standard motor size: 1½ HP
- Electrical enclosures: NEMA 12
- Control buttons: 110V
  - Hydraulic cylinders: 2″ bore, 24″ stroke

Major Options:

52″ Wide Bucket available!

- Stands - to change dump height
- Custom width body - for large or awkward containers
- Increased lift capacity
- Custom discharge chutes
  - Enclosed units - for dusty materials

Hydraulic Box Dumper		
Part Number	**Phase**	**Bucket**
31-2500	3	48″ Wide
31-2550	1	48″ Wide



Warranty

These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Portable Batch Mixer

The Portable Batch Mixer is solidly built for years of trouble-free service. This direct-driven, timer controlled mixer features a 14 gauge body, sidewall construction, industrial weight vertical auger, and safety disconnect switches on both covers. Its 44-inch square leg pattern is designed to fit on portable storage bins, auger discharge bins, or just standalone! Several styles of discharge stands are available to aid unloading. Eight inch discharge gate at the base of the unit ensures rapid emptying! Tough, abrasion-resistant epoxy painted exterior blue. Standard capacities of 10 through 60 cubic feet available, or we can custom build to match your ideal batch size! Units can easily be adapted with special intake chutes, vacuum discharge boxes, or auger take-aways. This practical, durable unit can handle most of your mixing needs!

PORTABLE BATCH MIXER

Portable Batch Mixer Specifications:

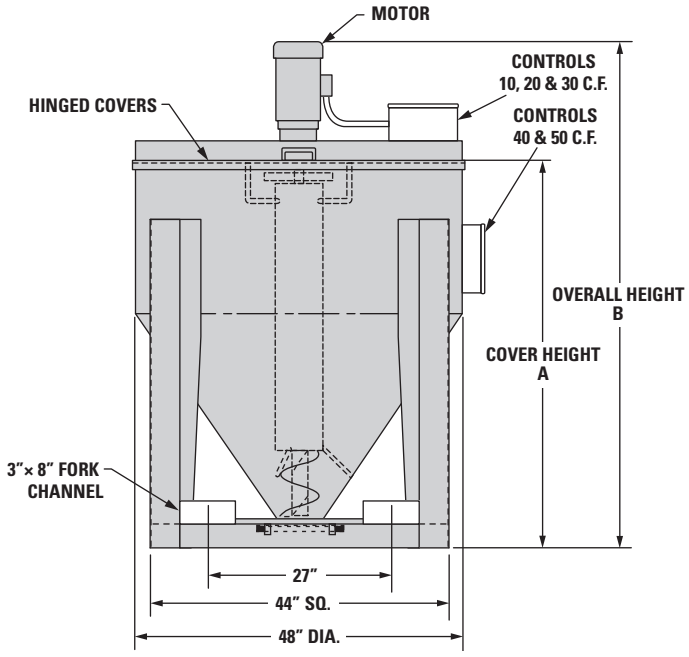
- Timer controlled, direct-drive vertical auger mixers
- 10 through 60 cubic foot capacities
- Eight-inch diameter discharge for fast unloading
- 14 gauge body and industrial weight auger for durability
  - steep-sided conical body handles most materials

Options:

- Gaylord discharge stand
- Powered auger take-away stands
- Vacuum box adapter stand
- Special intake chutes
- Epoxy painted interior
- Custom capacities

Portable Batch Mixer

Model No. 110V/1 PH	Model No. 240/480V/3PH	Capacity (cu. ft.)	"A" Dim. Height to Covers	"B" Dim. Overall Height	Drive MTR (hp)
60-1000	**60-1200**	10	40.5"	60"	.75
60-2000	**60-2200**	20	46.5"	66"	1
60-3000	**60-3200**	30	56.5"	76"	1.5
60-4000	**60-4200**	40	66.5"	86"	1.5
60-5000	**60-5200**	50	76.5"	96"	2
60-6000	**60-6200**	60	86.5"	106"	2



Warranty

These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Portable Storage Bins

The Portable Storage Bin is an inexpensive, versatile shop performer. Strongly built with full 14 gauge sidewalls and 1/4" thick legs, these bins are constructed to withstand the abuse of a busy shop! Special flared pads help make stacking (up to three high!) simpler and safer. Durable abrasion-resistant epoxy painted blue inside and out. Units may be ordered with or without covers or vacuum entry ports for maximum economy tailored to your needs. The 4" discharge features an adjustable tension slide gate. Four-way fork channels, pallet jack rails, casters, and product view windows are some of the available options. Standard 44-inch square design in capacities of 20, 30, 40, 50, or 60 cubic feet, or can be custom designed to fit your particular requirements! Watch these bins save your operation both time and space!

PORTABLE STORAGE BINS

Options

Pallet jack channels
4" casters (2 rigid, 2 swivel)
4-way fork entry
Foot pads
3" × 5" card holders
Vacuum port covers (set)

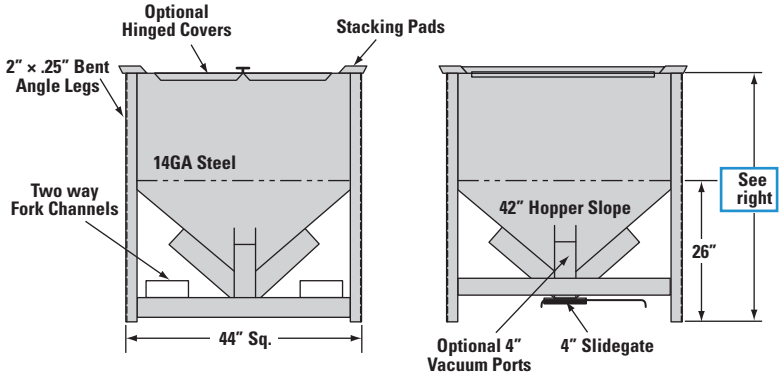
Other options available - or will custom design to fit your needs!

Warranty

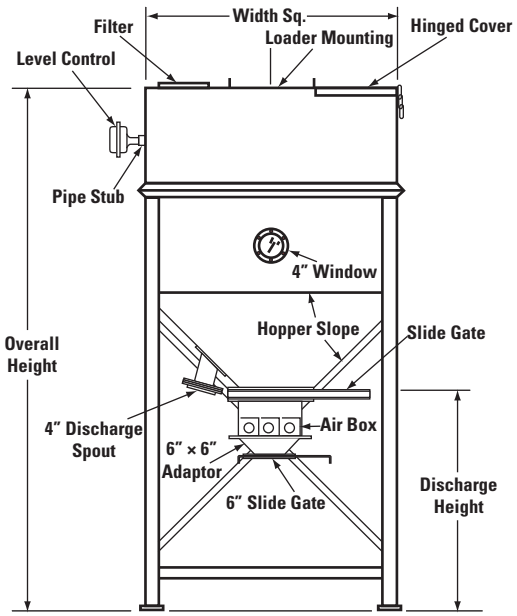
These products carry a full two year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Portable Storage Bins

Part Number	Description
40-2000	PSB-20 cu. ft. base unit
40-2100	PSB-20 cu. ft. with 4-way vacuum ports
40-2010	PSB-20 cu. ft. with 2-piece cont. hinged covers
40-2110	PSB-20 cu. ft. with vacuum ports AND covers
40-3000	PSB-30 cu. ft. base unit
40-3100	PSB-30 cu. ft. with 4-way vacuum ports
40-3010	PSB-30 cu. ft. with 2-piece cont. hinged covers
40-3110	PSB-30 cu. ft. with vacuum ports AND covers
40-4000	PSB-40 cu. ft. base unit
40-4100	PSB-40 cu. ft. with 4-way vacuum ports
40-4010	PSB-40 cu. ft. with 2-piece cont. hinged covers
40-4110	PSB-40 cu. ft. with vacuum ports AND covers
40-5000	PSB-50 cu. ft. base unit
40-5100	PSB-50 cu. ft. with 4-way vacuum ports
40-5010	PSB-50 cu. ft. with 2-piece cont. hinged covers
40-5110	PSB-50 cu. ft. with vacuum ports AND covers
40-6000	PSB-60 cu. ft. base unit
40-6100	PSB-60 cu. ft. with 4-way vacuum Ports
40-6010	PSB-60 cu. ft. with 2-piece cont. hinged covers
40-6110	PSB-60 cu. ft. with vacuum ports AND covers



Overall Height (w/vacuum ports)	Overall Height (w/OUT vacuum ports)	Capacity (cu.ft.)
36"	32"	20
46"	42"	30
56"	52"	40
66"	62"	50
76"	72"	60



Economical in plant bulk storage, surge bins are available in sizes ranging from 38 cu. ft. to 234 cu. ft. Large quantities of material can be stored using very little floor space. They can be filled or discharged using pneumatic or screw-conveying equipment. There are many options available to adapt these bins to almost any material handling system. Check with us to see just how affordable bulk storage can be!

SURGE BINS

A

Surge Bin Standard Features:

- 2 × 2 × 1/4 angle legs (48″ sq. bins)
- 3 × 3 × 1/4 angle legs (60″ × 72″ sq. bins)
- 14 ga. hopper (48″ sq. bins)
- 12 ga. hopper (60″ × 72″ sq. bins)
- Bolt-down foot pads
- Loader-mounting cutout (250 lbs max)
- 1/3 hinged cover
- Air box discharge flange (16 1/4 × 16 1/4)
- Blue epoxy (outside only)

Warranty
These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial

Optional Features:

- 12″ × 12″ slide gate
- 6″ × 6″ discharge adapter
- 6″ slide gate
- 4″ discharge spout w/slide gate
- Filter in cover
- 1 1/4″ pipe stub in hopper
- Level control
- 4″ window
- Platform w/ladder
- Epoxy paint inside

Standard Surge Bins
w/Discharge for Screw Conveyor or Air Box

Part Number	Description	Capacity (LBS) 35 LBS/CF	Discharge Height	Overall Height
44-4500	48″ × 48″, 45° Hopper, 21″ Sidewall	1330	18″	4′-9″
44-4600	48″ × 48″, 45° Hopper, 33″ Sidewall	1890	18″	5′-9″
44-4800	48″ × 48″, 45° Hopper, 45″ Sidewall	2450	18″	6′-9″
45-4500	60″ × 60″, 45° Hopper, 24″ Sidewall	2450	18″	5′-6″
45-4600	60″ × 60″, 45° Hopper, 36″ Sidewall	3325	18″	6′-6″
45-4800	60″ × 60″, 45° Hopper, 60″ Sidewall	5075	18″	8′-6″
45-4900	60″ × 60″, 45° Hopper, 84″ Sidewall	6825	18″	10′-6″
46-4800	72″ × 72″, 45° Hopper, 52″ Sidewall	6720	18″	8′-4″
46-4900	72″ × 72″, 45° Hopper, 76″ Sidewall	9240	18″	10′-4″
44-6500	48″ × 48″, 60° Hopper, 22″ Sidewall	1645	18″	5′-11″
44-6600	48″ × 48″, 60° Hopper, 34″ Sidewall	2205	18″	6′-11″
45-6600	60″ × 60″, 60° Hopper, 22″ Sidewall	2625	18″	6′-10″
45-6800	60″ × 60″, 60° Hopper, 46″ Sidewall	4375	18″	8′-10″
45-6900	60″ × 60″, 60° Hopper, 70″ Sidewall	6125	18″	10′-10″
46-6800	72″ × 72″, 60° Hopper, 34″ Sidewall	5670	18″	8′-9″
46-6900	72″ × 72″, 60° Hopper, 58″ Sidewall	8190	18″	10′-9″

Standard Surge Bins
w/Extended Legs for Gravity Discharge

Part Number	Discharge Height	Overall Height
44-8500	60″	8′-3″
44-8600	60″	9′-3″
44-8800	60″	10′-3″
45-5500	60″	9′-0″
45-5600	60″	10′-0″
45-5800	60″	12′-0″
45-5900	60″	14′-0″
46-5800	60″	11′-10″
46-5900	60″	13′-10″
44-9500	60″	9′-5″
44-9600	60″	10′-5″
45-7600	60″	10′-4″
45-7800	60″	12′-4″
45-7900	60″	14′-4″
46-7800	60″	12′-3″
46-7900	60″	14′-3″

Power Hopper

POWER HOPPER

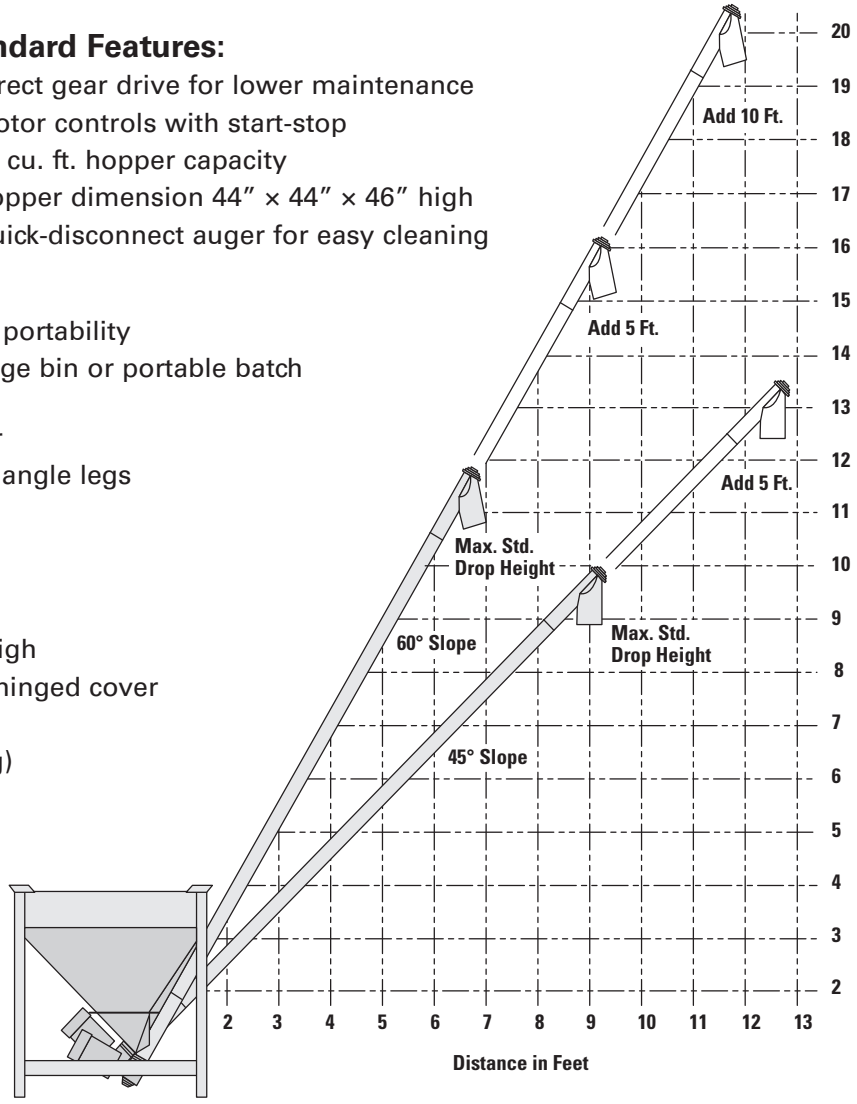
The Power Hopper is designed to feed pellets, granules, and free-flowing powders into an overhead hopper or storage vessel. It often works in conjunction with our Hydraulic Dumper to deliver material fast and efficiently from gaylord to point of use. Power Hoppers are built with a variety of auger sizes and types and can deliver from 10 to 500 cu. ft. of material per hour.

Standard Features:

- Direct gear drive for lower maintenance
- Motor controls with start-stop
- 20 cu. ft. hopper capacity
- Hopper dimension 44″ × 44″ × 46″ high
- Quick-disconnect auger for easy cleaning
- Compressable dust seal
- Two-way fork channels for easy portability
- Stacking pads for portable storage bin or portable batch mixer
- Foot pads to secure unit to floor
- 12 gauge hopper with 1/4″ bent angle legs
- 45° or 60° auger slope
- Epoxy painted, blue

Options:

- 30 cu. ft. capacity hopper, 56″ high
- Bag breaker grate *continuous hinged cover
- Vibrator
- Casters (2 swivel, 2 rigid locking)
- Variable speed drive



Warranty
These products carry a full two-year warranty. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Power Hopper

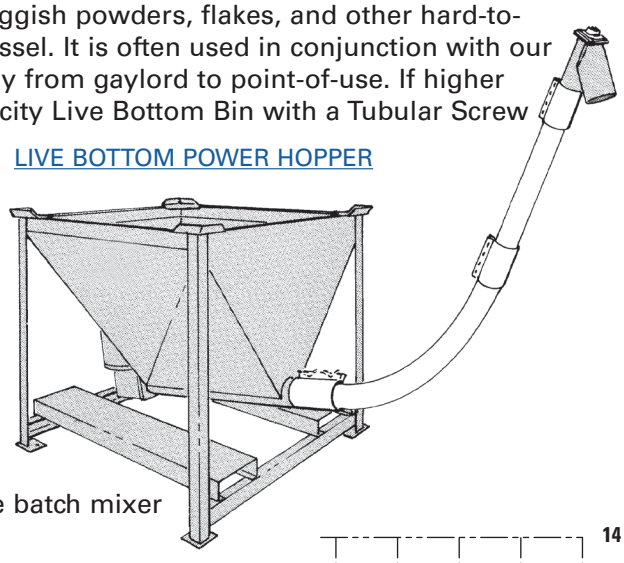
Part Number	Screw Dia.	Tube Dia.	RPM	STD. Dschg. Height	HP	Max. Length	Slope	Delivery Per Hr.
20-1100	2.7*	3.5″	345.00	11′	1.5 or 3.0	50′	60°	50 c.f.
20-2100	2.7*	3.5″	345.00	9′	1.5 or 3.0	50′	45°	60 c.f.
20-5100	4″	5″	232.00	11′	2.0 or 3.0	20′	60°	150 c.f.
20-6100	4″	5″	232.00	9′	2.0 or 3.0	20′	45°	180 c.f.

* Coreless Augers - need no hanger bearings and can incorporate a 60° radius elbow.
NOTE: Delivery rates on this table are approximations based on average materials under average conditions. Check with us before ordering to make sure the model you have selected will meet your requirements.

Live Bottom Power Hopper

The Live Bottom Power Hopper is designed to feed sluggish powders, flakes, and other hard-to-move materials into an overhead hopper or storage vessel. It is often used in conjunction with our Hydraulic Dumper to deliver material fast and efficiently from gaylord to point-of-use. If higher delivery rates are required, you may need a High Capacity Live Bottom Bin with a Tubular Screw Conveyor.

LIVE BOTTOM POWER HOPPER



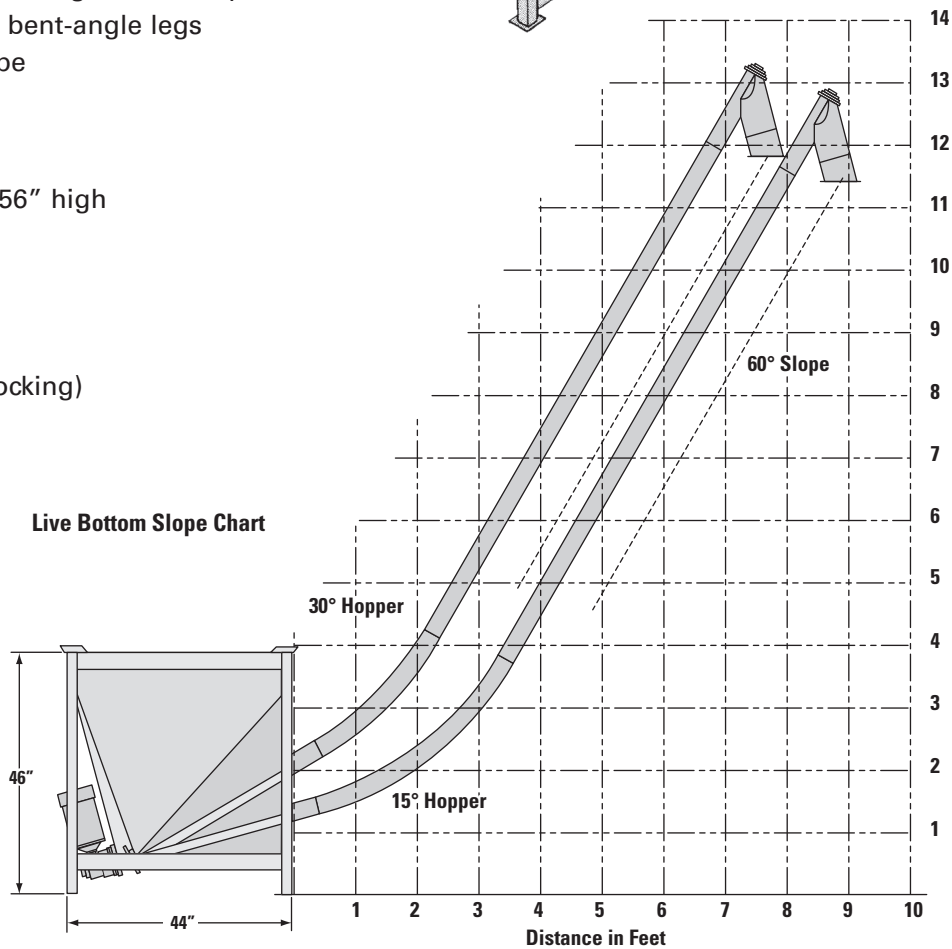
Standard Features:

- Direct gear drive for low maintenance
- Motor controls with start-stop
- 12 cu. ft. Hopper, 44″ × 44″ × 46″ high
- Quick-disconnect auger for easy cleaning
- Compressible dust seal
- Two-way fork channels for easy portability
- Foot pads to secure unit to floor
- Stacking pads for portable storage bins or a portable batch mixer
- 12 gauge hopper with 1/4″ bent-angle legs
- 15, 30, 45 or 60° auger slope
- Epoxy painted blue

Options:

- 22 cu. ft. capacity hopper, 56″ high
- Bag breaker grate
- Continuous hinged cover
- Vibrator
- Agitator
- Casters (2 swivel, 2 rigid locking)
- Variable speed drive
- Level control switch

Live Bottom Slope Chart



Warranty

These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Live Bottom Power Hopper

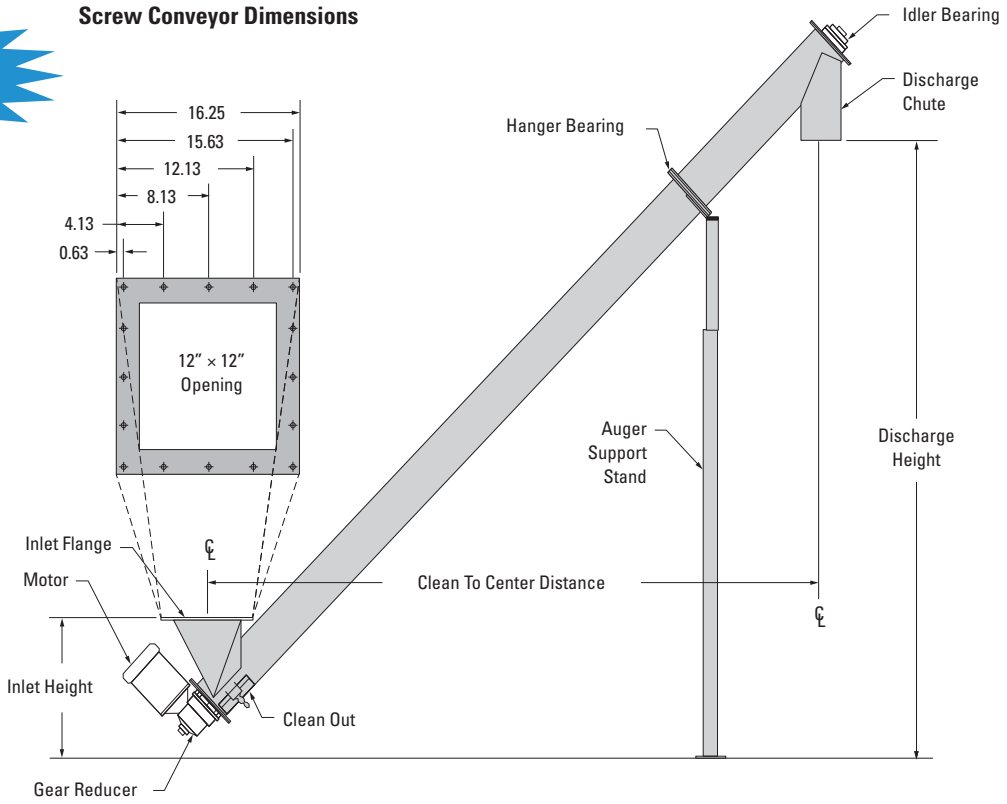
Part Number	Screw Dia.	Tube Dia.	RPM	HP	Max. Length	Slope	Delivery Per Hr.
20-1200	2.70	3.5″	345.00	1.5 or 2.0	30′	to 60°	50 c.f.

Screw Conveyor

Send us a material sample for evaluation.

SCREW CONVEYOR

Screw Conveyor Dimensions



Screw Conveyors

are most effective when moving large amounts of material over short distances. We have developed a standard line of tubular screw conveyors that range in capacity from 50 cu. ft. to 700 cu. ft. per hour. These Screw Conveyors are particularly good for moving dusty material because they can be completely sealed. Our direct-drive system is more compact and easier to maintain than other commonly used drives.

We offer a complete line of screw-conveying equipment including: discharge adapters, support stands, suspension brackets, level control switches, and control packages. We can also custom design screw conveyors to fit your particular material handing needs!

Warranty

These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Screw Conveyors

Part Number	Screw Dia.	Tube Dia.	RPM	HP	Auger Length	Slope	Delivery Per Hr.	Discharge Height
20-1000	2.7*	3.5″	345	1.5	10′8″	60°	50 c.f.	11′
20-2000	2.7*	3.5″	345	1.5	8′9″	45°	60 c.f.	9′
20-2200	4″	5″	232	2.0	10′8″	60°	150 c.f.	11′
20-2300	4″	5″	232	2.0	8′9″	45°	180 c.f.	9′

*Coreless Augers - need no hanger bearings and can incorporate a 60° radius elbow.
NOTE: Delivery rates on this table are approximations based on average materials under average conditions.
Check with us before ordering to make sure the model you have selected will meet your requirements.

Live Bottom Bins

High Capacity

The High Capacity Live Bottom Bin is designed to deliver sluggish powders flakes and other hard-to-move materials in high volume to your processing equipment. It can be used as a dump station or as a surge hopper. The High Capacity Live Bottom is available with a 6″ screw capable of delivering up to 200 cu. ft. of material per hour or a 9″ screw that can deliver up to 600 cu. ft. per hour. Let us help you design a custom system to suit your needs.

Standard Features:

- Bin size: 48″ wide × 86″ high, 48″ or 60″ long
- Bin capacity: 50 or 62 cu. ft.
- Bolt-down foot pads
- Shaft seal: PTFE packing
- Safety shut-off switch
- Motor controls with start-stop
- Conveyor screw: 6″ or 9″
- Direct gear drive: 20:1
- Delivery: 6″ Screw – 200 cf./hr.
  9″ Screw – 600 cf./hr.
- Painted blue epoxy
- 2 HP 230/460/3 PH

Options:

- Variable-speed control
- Explosion-proof electrical
- 2/3 bolt down, 1/3 hinged cover
- View windows
- Level switches
- Vibrator
- Agitator
- Stainless steel construction
- Custom paint and matching colors
- 2 HP. 110V/1PH

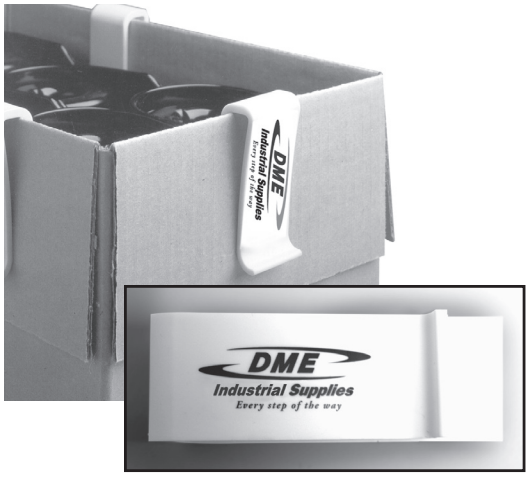
LIVE BOTTOM BINS

Warranty These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Part Number	Description	Flow Rate
21-1200	H.C. Live Bottom Bin, 48″ × 60″ × 86″high, 6″ screw	200 cu. ft./hr
21-1300	H.C. Live Bottom Bin, 48″ × 48″ × 86″high, 6″ screw	200 cu. ft./hr
21-2200	H.C. Live Bottom Bin, 48″ × 60″ × 86″high, 9″ screw	600 cu. ft./hr
21-2300	H.C. Live Bottom Bin, 48″ × 48″ × 86″high, 9″ screw	600 cu. ft./hr

Packaging Clips

Streamline Your Packaging with Quality Clips™



- Completely Removable and Reusable. Better than tape, it won't mark your boxes or leave residue.
- Prevents tipped or spilled boxes due to loose box flaps.
- Great for bulk packaging. Parts will not hang up on the smooth, flat surfaces or the tapered end.
- Maximize your workspace. Workers can stand closer to the box creating space in assembly line and manufacturing areas. No more leaning or reaching.

Quality Clips®
Part Number
QCLIPS

PACKAGING CLIPS

Floor-Mounted Dryers

Dri-Air®-4 Bed Series

HP4-X FM Series 4-Bed Floor-Mounted Dryers

Patented, high-performance, floor-mounted dryers used with press-mounted hoppers eliminate the weight of dryers on the press.

DRI-AIR's exclusive 4-bed drying systems are the best solution for faster drying of difficult materials and in difficult environmental conditions (high relative humidities). Minimum, constant dewpoints of –40°, with dewpoints down to –100°F.

- Perfect for tough materials and applications
  - ISOPLAST® dries effectively in any ambient condition
  - Excellent for medical and automotive molding and for critical molding such as: CDs, optical clarity, sensitive electronic components and thin-wall parts
  - Polycarbonate blends dry perfectly
  - Recommended for most non-air conditioned facilities
- Performs perfectly even at relative humidities over 80%
  - Minimum, constant dewpoints of –40° monitored and maintained throughout the drying operation

HP4-X FM Features

- Faster, more efficient regeneration
  - Exclusive temperature-based regeneration
  - No temperature or moisture spikes
  - Low-energy consumption
- Space-saving, compact design
  - Same size as ARID-X dual bed series
  - No moving components; easy desiccant change
- Advanced microprocessor control is standard (USA and Canada only)
  - Built-in dewpoint monitor
  - 7-day timer for auto start/stop operation

HP4×50/75/100

Options for HP4-X:

- Alarm light
  - UDC control
  - Clogged filter indicator
  - Temp setback
- High-temp hose
- After-cooler
- Plasticizer trap

HP4×150/200/300

FLOOR MOUNTED DRYERS

Dri Air Model	Process Rate		Flow Rate		Dimensions	
	(lbs)	(kg)	(CFM)	(m^3/hr)	l/w/h (inches)	l/w/h (cm)
HP4 × 25	30	14	25	42	23.5/17/38	60/43/97
HP4 × 35	40	18	46	78	23.5/17/38	60/43/97
HP4 × 50	50	25	57	97	32/25/50/76	76/61/127
HP4 × 75	80	36	75	127	32/24/50/76	76/61/127
HP4 × 100	110	50	110	187	32/24/50/76	76/61/127
HP4 × 150	160	73	150	255	36/42/64/91	91/107/163
HP4 × 200	220	100	200	340	36/42/64/91	91/107/163
HP4 × 300	330	150	300	510	36/42/64/91	91/107/163

Standard power: 208, 230, 400, 480, 600 VAC; 50/60 Hz

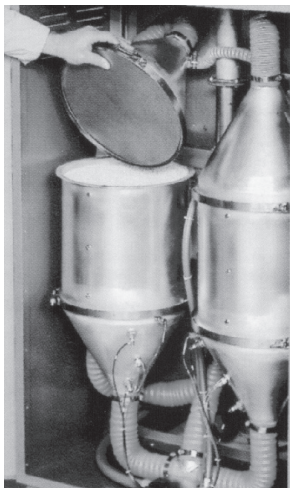
Call for A Quote!

A

ARID-X® FM Series 2-Bed

Floor-Mounted Dryers
Industry standard dryers used with press-mounted hoppers.
Compact, dual-bed design saves valuable floor space; comes complete with casters and hoses.

- Continuous air flow at constant dewpoints, –40° or lower
- Easy-to-operate UDC controller is standard
  - Temperature alarm included
  - Advanced microprocessor control available
- Space-saving, compact design
  - Fast, easy servicing of desiccant and heaters
  - Durable, sturdy construction
  - Easy access, quick-clamp enclosures
- Electric dryer valve eliminates the need for compressed air


Easy, quick-clamp access to desiccant

Dri Air Model	Process Rate		Flow Rate		Dimensions	
	(lbs)	(kg)	(CFM)	(m^3/hr)	l/w/h (in.)	l/w/h (cm)
ARID × 25	25	12	25	42	23.5/17/38	60/43/97
ARID × 35	35	16	46	78	23.5/17/38	60/43/97
ARID × 50	60	25	57	97	32/24/50	76/61/127
ARID × 75	75	35	75	127	32/24/50	76/61/127
ARID × 100	100	45	110	187	32/24/50	76/61/127
ARID × 150	150	68	150	255	36/42/64	91/107/163
ARID × 200	200	91	200	340	36/42/64	91/107/163

Standard Power: 208, 230, 400, 480, 600 VAC; 50/60 Hz

Options for HP4-X:

- Alarm light
- UDC control
- Micro options:
  - Clogged filter indicator
  - Temp setback
- High-temp hose
- After-cooler
- Plasticizer trap

Call for A Quote!

Mini Dryer

ARID-X®-10 Mini-Dryer
Ideal for lab, insert and micro-part molding

- ELC control - no compressed air required
- Space-saving, compact design, only 21 inches (54 cm) high and weighs only 20 lbs (23 kg)

Mini Dryer
Part Number
ARIDX10

Call for A Quote!

Dri-Air®

- Fast drying with the industry's smallest 2-bed dryer
- Processing rates up to 10 lbs/hr (5 kg/hr)
- PID microprocessor control for accurate temperatures
- Process temperatures of 150° to 300°F (65° to 149°C)
- Dimensions 11 × 18 × 21 inches (23 × 36 × 41 cm)

Drying Hoppers

Dri-Air®

RH Series Hoppers

Fully insulated, modular, stainless steel construction DRI-AIR's Modular Hoppers ensure uniform material flow with:

- NO channeling
- NO feedout problems
- NO mixing problems
- NO thru-put problems

- Standard capacity hoppers range from 5 to 1500 lbs (2 to 680 kg). Larger hoppers available, consult factory
- Dries less than a full hopper of material so there is no scrap or feedout
- Dries material to the bottom of the slide gate
- Easy-to-clean diffuser cone directs and optimizes air/material flow (no slugs of undried resin)
- Hoppers include:
  - Slide gate
  - Blank-mounting adapter
  - Access door (RH60 and over)
  - Insulation
- Laser-cut access doors provide a smooth, tight fit and eliminate troublesome gaskets
- Latch-held covers provide complete sealing; internal ring controls fill height and prevents possible damage to loader
- RH400 & RH600 hoppers include full-length sight glass and Bunting™ no-spill slide gate

RH30 RH60

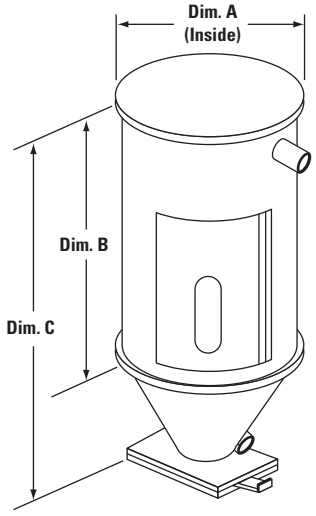
Options for RH

Floor Stand
Take Off Box (NA on 5)
Adjustable Fill Sensor

Call for A Quote!

DRYING HOPPERS

Adjustable Fill Sensor



Dri-Air Hopper Model	Capacity		Dimensions					
			A		B		C	
	(lbs)	(kg)	in	(cm)	in	(cm)	in	(cm)
RH5	5	2	8	(20)	6	(15)	12	(31)
RH15	15	7	10	(25)	9	(23)	18	(41)
RH30	30	14	14	(36)	16	(41)	28	(71)
RH60	60	27	14	(36)	28	(71)	40	(102)
RH100	100	45	19	(46)	25	(64)	37	(94)
RH150	150	68	18	(46)	38	(97)	50	(127)
RH200	200	91	23	(58)	44	(76)	47	(119)
RH300	300	136	23	(58)	30	(112)	61	(155)
RH400	400	181	27	(69)	40	(102)	60	(152)
RH600	600	272	27	(69)	60	(152)	80	(203)
RH1000	1000	453	36	(91)	58.5	(149)	84.5	(–)
RH1500	1500	680	39	(99)	70.5	(179)	97	(–)

Hopper-Mounted Dryers

Dri-Air®

HM SERIES HOPPER MOUNTED DRYERSD

HM dryers save valuable floor space by combining the dryer with the hopper
Available with high-performance, 4-bed or with industry-standard, 2-bed dryers

- Easy-to-operate, standard ELC (for AHM1) or UDC (for AHM2 - AHM4)-based control with high-temperature alarm standard
- Unique design distributes weight throughout the hopper base
- Electric dryer valve eliminates the need for compressed air

Options for HM Series

Portable Stand
After Cooler
Plasticizer Trap
Magnet Drawer MD7500

Model Number:	Two Bed	**AHM1**	**AHM2**	**AHM3**	**AHM4**
	Four Bed	N/A	**HPHM2**	**HPHM3**	**HPHM4**
Process Rate (lbs/hr):	Two Bed	10	15	25	35
	Four Bed	n/a	20	30	40
Process Rate (kg/hr):	Two Bed	10	7	12	16
	Four Bed	n/a	10	14	18
Hopper Capacity:	lbs	30	60	100	150
	kg	14	27	45	70
Power:		110, 1phase	208, 230, 400, 460, single or three phase		
Dimensions:	inch (l/w/h)	22/21/28	30/29/42	30/29/38	30/29/51
	cm (l/w/h)	56/53/71	76/74/107	76/74/96.5	76/76/130

Mini Hopper-Mounted Dryer

AHM1 MINI-DRYER

r

Complete with 30 lb (14 kg) insulated stainless steel hopper and 18 CFM blower, the AHM1 is an ideal match for small presses processing under
10 lbs/hr (4.5 kg/hr).

- Available in 110 and 220 volts
- Weighs only 98 lbs (45 kg)
- Compact 22 × 21 × 28 inches (56 × 53 × 71 cm)
- Electric dryer valve eliminates the need for compressed air
- Affordable

Mobile Drying Systems

Dri-Air®

Eliminate press-mounted drying equipment for faster, easier and safer material changeovers. A compact package using our hopper-mount dryer; simply add our DAC compressed air loader and take-off box for a complete off-the-press drying system.

- Fast material changes by drying offline, wheel into position where needed
- Sturdy stand with swivel and locking casters
- Available with industry-standard, two-bed or high-performance, four-bed dryer

MOBILE DRYING SYSTEMS

A great desiccant-type hopper dryer for use throughout the plant! This compact and portable unit has all the features you need and expect from a high-quality dryer:

- Single blower design will save up to 50% in energy costs
- Stainless steel, fully insulated hopper
- Two desiccant beds which automatically regenerate
- PLC-based control for 2-bed dryers and ADC-based control for 4-bed dryers
- Sturdy stand with locking swivel casters

Model Number:	Two Bed	APD1	APD2	APD3	APD4
	Four Bed	HPD1	HPD2	HPD3	HPD4
Process Rate (lbs/hr):	Two Bed	7.5	15	25	35
	Four Bed	10	20	30	40
Process Rate (kg/hr):	Two Bed	5	7	12	16
	Four Bed	6	10	14	18
Hopper Capacity:	lbs	30	60	100	150
	kg	14	27	45	68
Stand:		Included	Included	Included	Included
Power:		208, 230, 400, 480, 600 VAC; 50/60 Hz			
Dimensions:	inch (l/w/h)	25/39/57	25/39/62	25/39/60	25/39/73
	cm (l/w/h)	64/99/145	64/99/169	64/99/152	64/99/185

DAC Loader

Dri-Air®

Eliminates press-mounted hoppers;
Improves operator safety;
Replaces noisy vacuum motors;
Ideal for quick material changes.

DAC LOADER

- A simple, effective material loader powered by normal shop air.
- Ideal for use with drying hoppers and injection molding machines.
- Excellent for material transfer applications such as:
  - Loading 5- to 150- ton presses
  - As a standalone unit to load undried resins from bags, etc.
  - Material loading from DRI-AIR PD Systems
- Supplied as a complete unit with:
  - Transvector pickup tube
  - Compressed air regulator
  - Stainless steel receiver with filter
  - Electric controls

DRI-AIR Model	Loading Applications
DAC1	DRI-AIR PD Systems & Molding Machines
DAC2	Hoppers

Portable Hopper Banks

One dryer connects to multiple hoppers for a centralized drying system. Dry different materials, each at different temperatures, simultaneously!

DRI-AIR Hopper Banks are built on a compact, castered floor frame connected to one DRI-AIR dryer (not shown).

- Each hopper has its own separate temperature controller and heater
- Air manifolds with shutoff valves isolate hoppers not in use or while being cleaned
- No contamination problems, and far lower operating costs than drying ovens
- Ideal for pre-drying resins for fast changeovers
- Downtime reduced significantly because of faster, cleaner changeovers with pre-dried material
- Partial hopper loads dried as thoroughly as full loads
- Perfect for research & development applications
- Processors making one or two material changes daily can justify the cost of a hopper bank within six months

Pricing includes: hoppers, frame, booster heaters, temperature controllers, casters, supply and return air manifolds with shut-off valves.

3 Bank HOPPER Model	4 Bank HOPPER Model	5 Bank HOPPER Model
RH5-3	RH5-4	RH5-5
RH15-3	RH15-4	RH15-5
RH30-3	RH30-4	RH30-5
RH60-3	RH60-4	RH60-5
RH100-3	RH100-4	
RH150-3	RH150-4	

PORTABLE HOPPER BANKS

Compressed Air Dryers

Hopper Mounted

CAHM series are compact, lightweight dryers that easily fit on most presses freeing up valuable floor space. The CAHM series operates on your plant's compressed air with our
Dri-Pack for drying down to –40°F dewpoints.

- Simple, straightforward operation - simply set the drying temperature
- Compact enough to fit on most machines without special bracing or adapters
- Perfect for R & D applications
  - Standard –for drying down to 0° dewpoint
  - Standard w/Dri-Pack –for drying down to –40°F dewpoints

The CAHM is a self-contained drying system that easily mounts on most machines. Using a steady supply of clean, compressed air @ 100 psi. the CAHM unit will provide dewpoints down to –40°F dewpoint.

The easy-to-use controls include process and actual temperatures and a high-temperature alarm. The CAHM has a wide temperature range of 70°F to 360°F without the need of after-coolers.

Drying hoppers on the CAHM series are stainless steel and include insulation, blank feed throat adapter, drain port, slide gate and manual fill lid. On the CAHM2's 60 lb hopper, a laser-cut access door and full length sight glass are also included.

The CAHM's Dri-Pack provides the dryer with –40°F dewpoint air, enabling the drying of all types of resin. Included with the Dri-Pack is a super-fine filter that filters your compressed air prior to the membrane.

Designed for trouble-free, reliable operation, the membrane comes standard with a three-year warranty. Scheduled maintenance is reduced as moving parts have been eliminated.

Dryer Model	Hopper Size	Heater (Kw)	Dimensions
CAHM30	30 lbs	1.25	20" (w) x 28" (h)
CAHM60	60 lbs	2.00	20" (w) x 40" (h)

COMPRESSED AIR DRYERS

Available power: 110 or 220 volts, 1 phase, for CAHM30, 220 volts 1 phase only for CAHM60 series.
Compressed air requirement 100 psi of clean, 40°F dewpoint air @ 1.5–2.5 SCFM.
Specifications subject to change without notice.

CAHB series are complete with a built-in compressed air Dri-Pack dryer that provides the hoppers with dry –40°F air!

- Dry different materials at different temperatures, simultaneously
- Ideal for pre-drying resins for fast changeovers
- Automatic air control to hoppers for easy, trouble-free operation
- Perfect for small tonnage machines
- Eliminate downtime waiting for material to dry

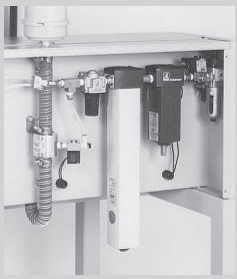
This self-contained drying system is all you need for pre-drying materials for fast changeovers. Each hopper has its own booster heater and temperature controller so you can dry different materials at different temperatures simultaneously. The CAHB has a wide temperature range of 70°F to 350°F without the need of after-coolers.

To simplify operation, air flow to the hoppers is controlled automatically when the temperature controllers are turned on/off, eliminating the guesswork associated with manual air valves. The CAHB's central control panel contains the temperature controllers, control switches and high-temperature alarm status panel. Installation is also simplified with one power and air connection.

The stainless steel, insulated drying hoppers are designed for easy cleaning and include a slide gate for draining. Quick clamps secure the hopper lid for access and cleaning.

The CAHB's built-in compressed air Dri-Pack dryer saves space by eliminating the need for an external desiccant dryer power pack. Membrane technology provides –40°F dewpoints from your plant's compressed air, making it capable of drying all kinds of materials.

Designed for trouble-free, reliable operation, the membrane comes standard with a three-year warranty. Scheduled maintenance is a simple matter of cleaning the hopper filters, as most moving parts have been eliminated.



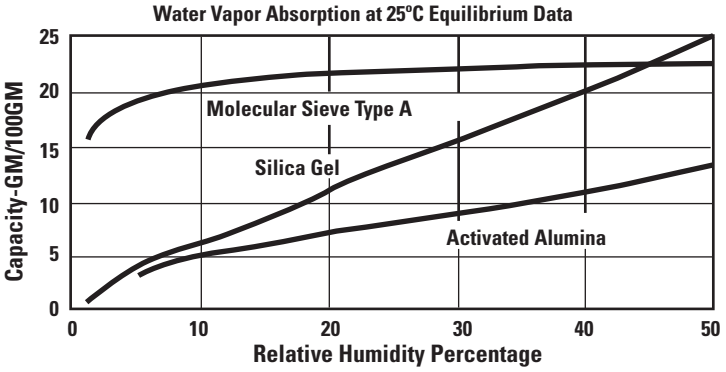
Dryer Model	Hopper Capacity	Number of hoppers	Dimensions
CAHB5-3	5 lbs/hr	3	48" (l) x 28" (w) x 43" (h)
CAHB15-3	15 lbs/hr	3	48" (l) x 28" (w) x 50" (h)

Available power: 110 or 220 volts, 1 phase. Compressed air requirement 100 psi of clean, 1.5-2.5 SCFM. Other sizes available - please call. Specifications subject to change without notice.

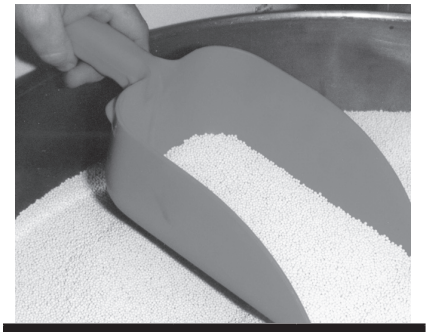
We carry both 13X and 4A Molecular Sieve Desiccants in stock. Due to the particular designs of the resin dryers used in the industry, it is important that the correct sieve is used with the dryer that it was designed for. Unfortunately, we cannot recommend a desiccant based on either the type of materials you are processing or the type of equipment you have. You may have two different machines from the same manufacturer that will require different desiccants. We can say with certainty that equipment manufacturers will recommend one of two types; 13X or 4A. Each have advantages when used in the drying process.

Molecular sieve-type 13X has a 12% higher water capacity and a larger pore size. This larger pore allows the water to absorb faster than the 4A and will absorb larger molecules as well. Depending on the quantity and type of molecules present, these could react on the surface of the 13X during regeneration and not come off, thus reducing the sieve capacity over time. 13X is subject to contamination which renders it ineffective.

Because of 4A's smaller pore size, it is less subject to contamination. However, because of its lower capacity and smaller pore opening, the rate at which it absorbs water will be lower than with the 13X. Another factor to consider is the bead size. Small beads (8 × 12 mesh) have a faster rate of water absorption, but they also have a higher pressure drop than the larger (4 × 8) beads. If you don't know which type of sieve your dryer was designed to use, we urge you to contact the manufacturer of your equipment for their recommendation. In either case we carry what you need at a fraction the price charged by the OEM. Our desiccant is only the most fresh and pure to ensure optimum performance.



DESSICANT



Part Number	Bead Size	Mesh Size
13 × 542	1/8"	4 × 8
13 × 544	1/16"	8 × 12
4A513	1/8"	4 × 8
4A514	1/16"	8 × 12

Digital DewPoint Monitor

Vaisala® Hand-Held Dewpoint Meter

DIGITAL DEWPOINT MONITOR

Kit A Includes: Part Number DM70D1B3A3B1

- DM70 Meter - rechargeable with U.S. AC adapter
- M170 Link (software with USB cable)
- Probe type DMP74B [–60 to +20°C Td]
- Sample cell DMT242SC (no fittings)
- Wheatherproof light gray, hard plastic carrying case (M170CASE3)
- Instruction manual

Digital DewPoint Monitor

Vaisala® Hand-Held Dewpoint Meter

The Vaisala DRYCAP® Hand-Held Dewpoint Meter DM70 measures dewpoint temperature accurately over a wide measurement range. The probe may be inserted directly into pressurized processes, and it responds rapidly from ambient to process conditions. The sensor withstands condensation and fully recovers from getting wet.

The monitor also has a Sensor Purge feature. This Sensor Purge heats and dries the sensor, making the response from ambient to dry conditions exceptionally fast. This facilitates rapid shot-checking measurements in low dewpoints.

Low maintenance due to innovative autocalibration
The DM70 is fitted with the Vaisala DRYCAP® Sensor. The sensor provides reliable and high-performance dewpoint measurement with revolutionary long-term stability. The patented autocalibration procedure detects online possible measurement inaccuracies and automatically corrects dry-end drift in the calibration curve. These advanced features provide a long calibration interval and low maintenance cost.

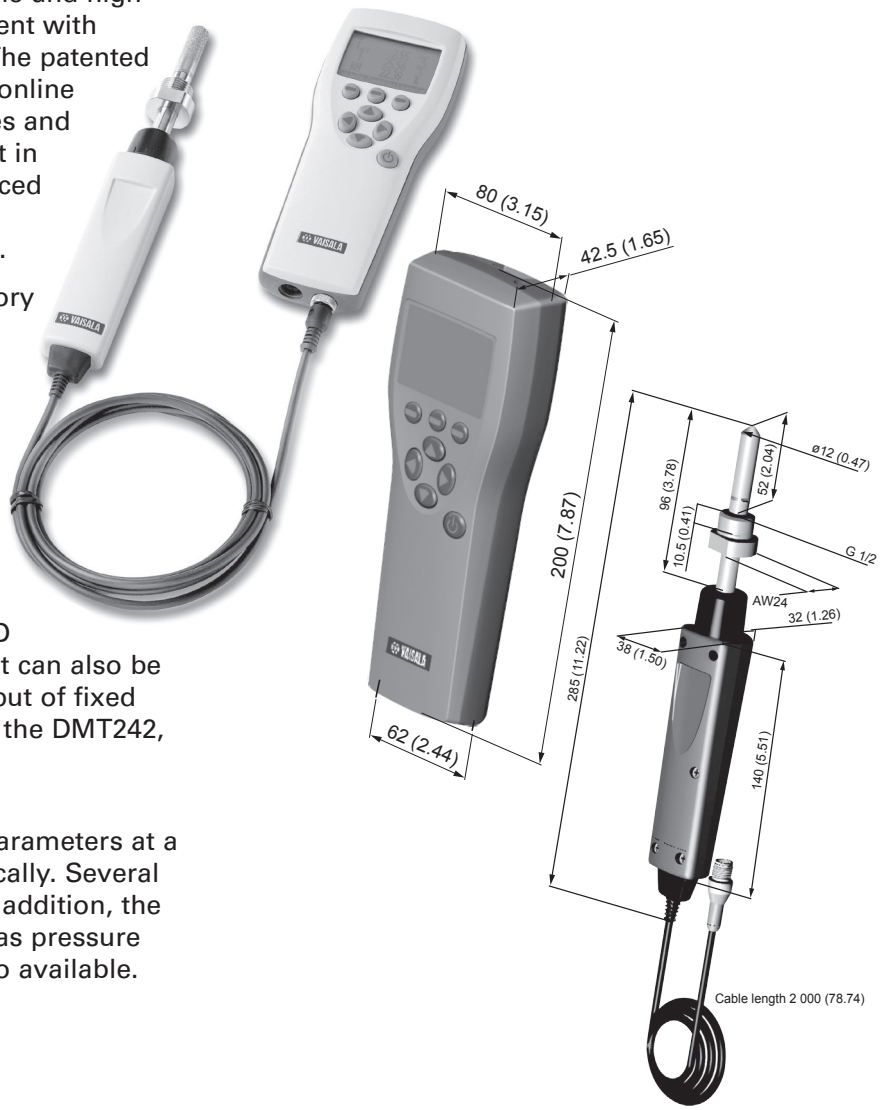
The meter is calibrated in the factory against internationally traceable standards and delivered with a calibration certificate. The DM70 can also be sent to a Vaisala Service Center for a traceable recalibration.

Easy-to-use user interface
The DM70 has a versatile and easy-to-use, menu-based user interface and a clear graphical LCD display with datalogger function. It can also be used as a tool for reading the output of fixed Vaisala dewpoint transmitters like the DMT242, DMT142 and DMP248.

Various display variables
The DM70 displays one to three parameters at a time, either numerically or graphically. Several humidity units can be selected. In addition, the DM70 includes conversion from gas pressure dewpoint. An analog output is also available.

Features/Benefits:

- Designed for industrial spot checking and field calibration
- Vaisala DRYCAP® Sensor with patented autocalibration function
- Low maintenance need due to superior long-term stability
- Sensor withstands condensation
- Fast response, enhanced by Sensor Purge option
- Easy-to-use user interface
- Data can be logged and transferred to a PC via M170 Link software
- Compact, small and light
- NIST traceable (certificate included)



Digital DewPoint Monitor

Vaisala® Hand-Held Dewpoint Meter

M170 Link PC Connection

The DM70 has a M170Link Windows® software program for transferring logged and real-time measurement data from the DM70 to a PC.

Lightweight Construction

The DM70 is small and rugged, and therefore an ideal choice for demanding applications. The long battery life provides convenient use in the field.

DM70 Accessories

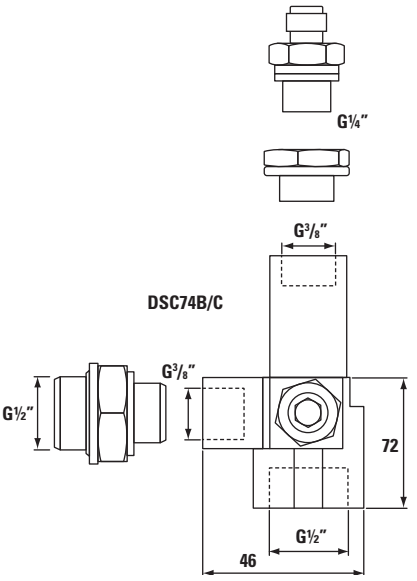
The DM70 meter is suitable for direct dewpoint measurements in a wide temperature and pressure range. For more demanding applications, the DM70 can be used with the Vaisala sampling cell adapters, or with the Vaisala DRYCAP® Sampling System (DSS70A).

The DSS70A provides a compact solution for field checking dewpoint where direct measurement is difficult.

DSS70A Portable Sampling System

The DSS70A is designed to provide dewpoint sampling flexibility. For processes at atmospheric pressure, a battery-powered pump is used to extract a gas sample. For pressurized processes up to 20 bar, the sample is measured at process pressure and then reduced to atmospheric pressure for venting or re-direction, bypassing the pump. In all cases, the sample gas passes through
a filter to remove particulate contamination before measurement. Flow through the system is controlled and monitored with
a needle valve and flow meter.

The DSS70A is easily connected to an appropriate sample point with tubing (typically 1/4" or 6mm). The measured dewpoint must be below ambient temperature to avoid condensation in the system. Gas temperatures higher than +40°C (+104°F) should be cooled with a short PTFE or stainless steel tube prior to entering the DSS70A.

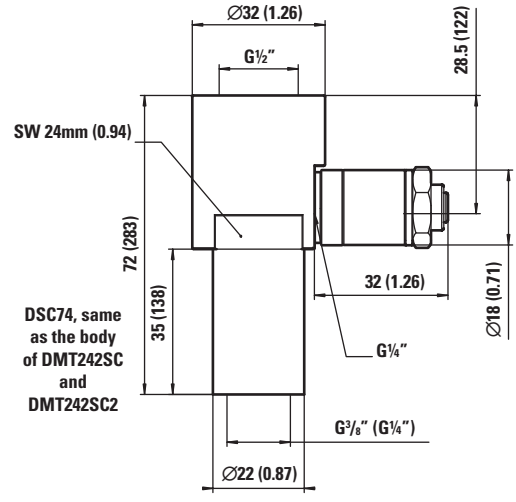


Sampling Cells for Pressurized Process

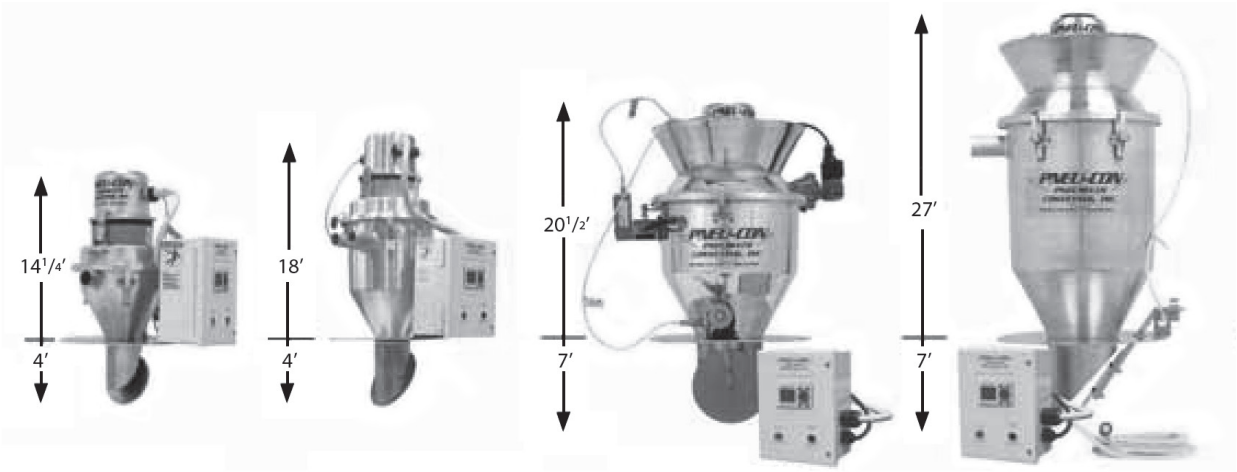
The DM70 can easily be connected to pressurized processes. In addition to direct pipeline installation, a variety of sampling cell options are available for gas sampling.

The DMT242SC is a basic sampling cell. The DMT242SC2 is a sampling cell supplied with welded Swagelok connectors for sampling in a 1/4" pipeline.

The DSC74 sampling cell has a variety of connection adapters that allow several different ways of installation. The quick connector with a leak screw allows a very fast connection for compressed air lines. Additionally, two thread adapters are available for the inlet port.



Whisper® Loader Specifications



SC1250
Receiving chamber
Diameter 14″

SC1250PLVP
Receiving chamber
Diameter 14″

SC1500PLVP
Receiving chamber
Diameter 14″

SC1750
Receiving chamber
Diameter 14″

Model	Motor VAC Code	"BL" Motor Avail.	Pick-Up Lance Qty.	Flex Hose (X) x 10' Lg	Filter Code	Filter Qty.	Filter Area	Control Cord Length	Power Cord Length	Loader Weight (lb)	Shipping Weight (lb)
Standard & VP											
SC1250	1	No	1	1	2	1	64-in²	1.5′	10′	14	26
SC1500	1	Yes	1	1	2	1	153-in²	1.5′	10′	24	45
SC1500-VP	1	Yes	1	1	1	1	153-in²	1.5′	10′	24	45
SC1750	1 or 2	Yes	1	1	2	1	153-in²	1.5′	10′	28	48
SC1750-VP	1 or 2	Yes	1	1	1	1	153-in²	1.5′	10′	28	48
Proportioning											
SC1250-PLVP	1	No	2	2	1	1	64-in²	1.5′	10′	23	35
SC1500-PLVP	1 or 2	Yes	2	2	1	1	153-in²	12′	10′	27	47
SC1750-PLVP	1 or 2	Yes	2	2	1	1	153-in²	12′	10′	32	52
Powder & Proportion-Powder											
SC1250-PR1C	1	No	1	1	3	1	11-ft²	12′	10′	26	38
SC1500-PR3C	1 or 2	Yes	1	1	3	3	33-ft²	12′	10′	32	52
SC1750-PR3C	1 or 2	Yes	1	1	3	3	33-ft²	12′	10′	38	58

Motor Code 1 2 (All units with 2-Stage Blower Fan)
Voltage 120VAC 240VAC
Filter Code 1 2 3
Filter type Di-Ac Nylon Di-Ac Polyfelt Pleated Cartridge

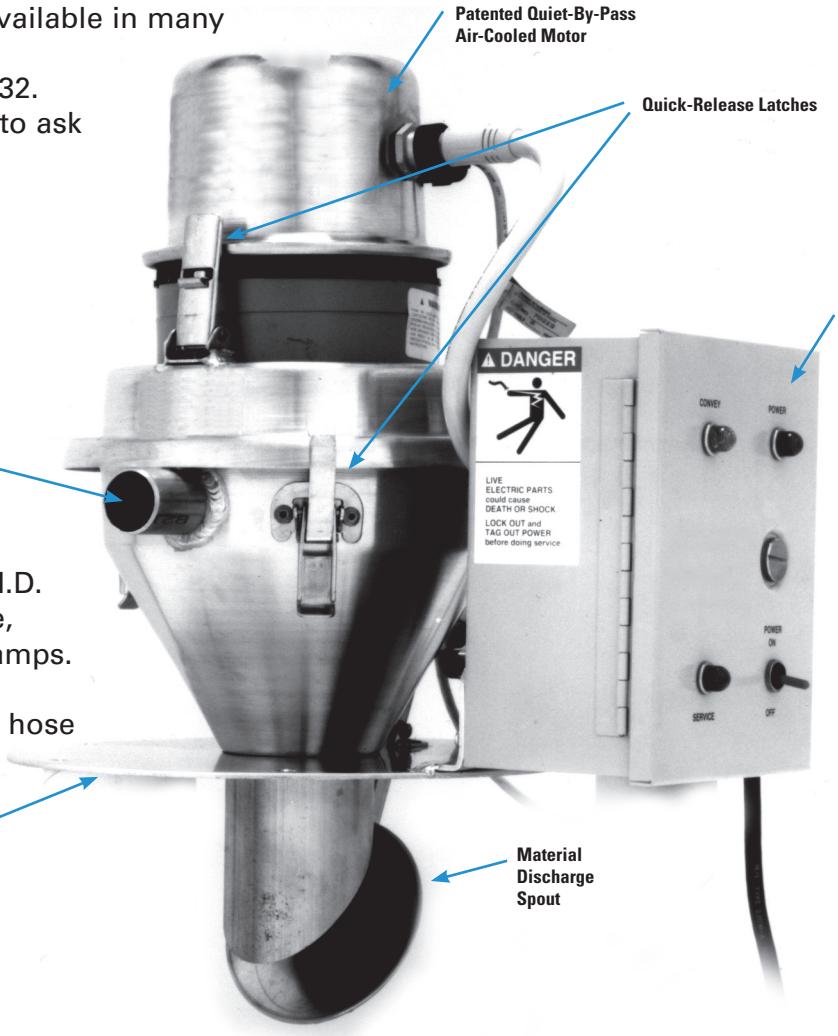
Notes: 1) Diaphragming-Action (Di-Ac) Flat Filters available in either Nylon or Polyfelt as options.
2) Pleated Filters are 12″ standard with Loader body straight-side dimension of 12″ minimum; other lengths (6″ & 18″) available as special-order options (longer Filters require taller bodies).
3) Shipping weights shown include Pick-Up Lance(s), Hose(s), Control Panels & Packaging.
4) Series 1500 and larger Loaders available with the Brushless "BL" type motor - adds 5 pounds.

Whisper Loaders™

SC1250 -Conveys approx. 500 lbs/hr

This basic model is available in many variations.
See options on page 32.
Please don't hesitate to ask

WHISPER LOADERS



Includes 10 ft. of 1¼"I.D. flexible material hose, pick-up probe and clamps. Proportional options include (2) lengths of hose 10' long.

Remote panel available; call for quote

Base Model SC1250 Features

- Spun & welded aluminum
- Di-Ac filter (pellet or granual service)
- Electrical control box with power cord (12 ft.)
- Flexible hose with pick-up lance
- High-level control of receiving hopper
- Motor and turbine (vacuum producer)

Stainless Steel Model SC1250SS

- Same features as SC1250
- Spun and welded stainless steel receiver

Self-Cleaning Model SC1250VP

- Same features as SC1250
- Vibra-Pulse filter cleaning system

Extra Tall Model SC1250XT

- Same features as SC1250
- Extra tall receiver - 4" taller than standard

Integral Proportioning Model SC1250PLVP

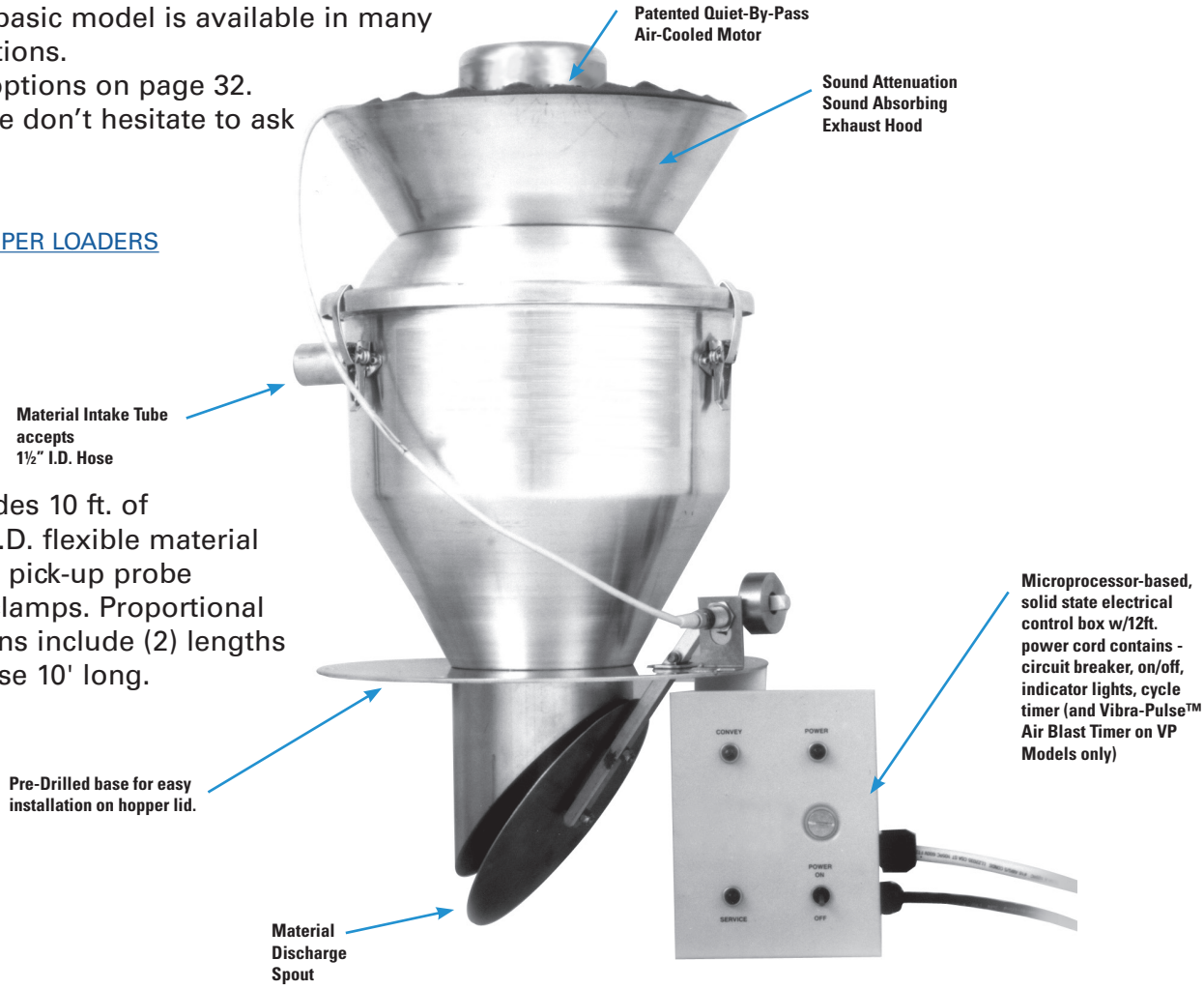
- Same features as SC1250
- Vibra-Pulse filter cleaning system
- Integral proportioning
- Proportional control timer

Whisper Loaders™

SC1500 -Conveys approx. 1400 lbs/hr

This basic model is available in many variations.
See options on page 32.
Please don't hesitate to ask

WHISPER LOADERS



Includes 10 ft. of 1½" I.D. flexible material hose, pick-up probe and clamps. Proportional options include (2) lengths of hose 10' long.

Base Model SC1500 Features

- Spun & welded aluminum
- Sound attenuation
- Di-Ac filter (pellet or granual service)
- Electrical control box with power cord (12 ft.)
- Flexible hose with pick-up lance
- High-level control of receiving hopper
- Motor and turbine (vacuum producer)

Stainless Steel Model SC1500SS

- Same features as SC1250
- Welded stainless steel receiver

Self-Cleaning Model SC1500VP

- Same features as SC1500
- Felt filter
- Vibra-Pulse filter cleaning system

Integral Proportioning Model SC1500PLVP

- Same features as SC1500
- Vibra-Pulse filter cleaning system
- Integral proportioning
- Proportional control timer

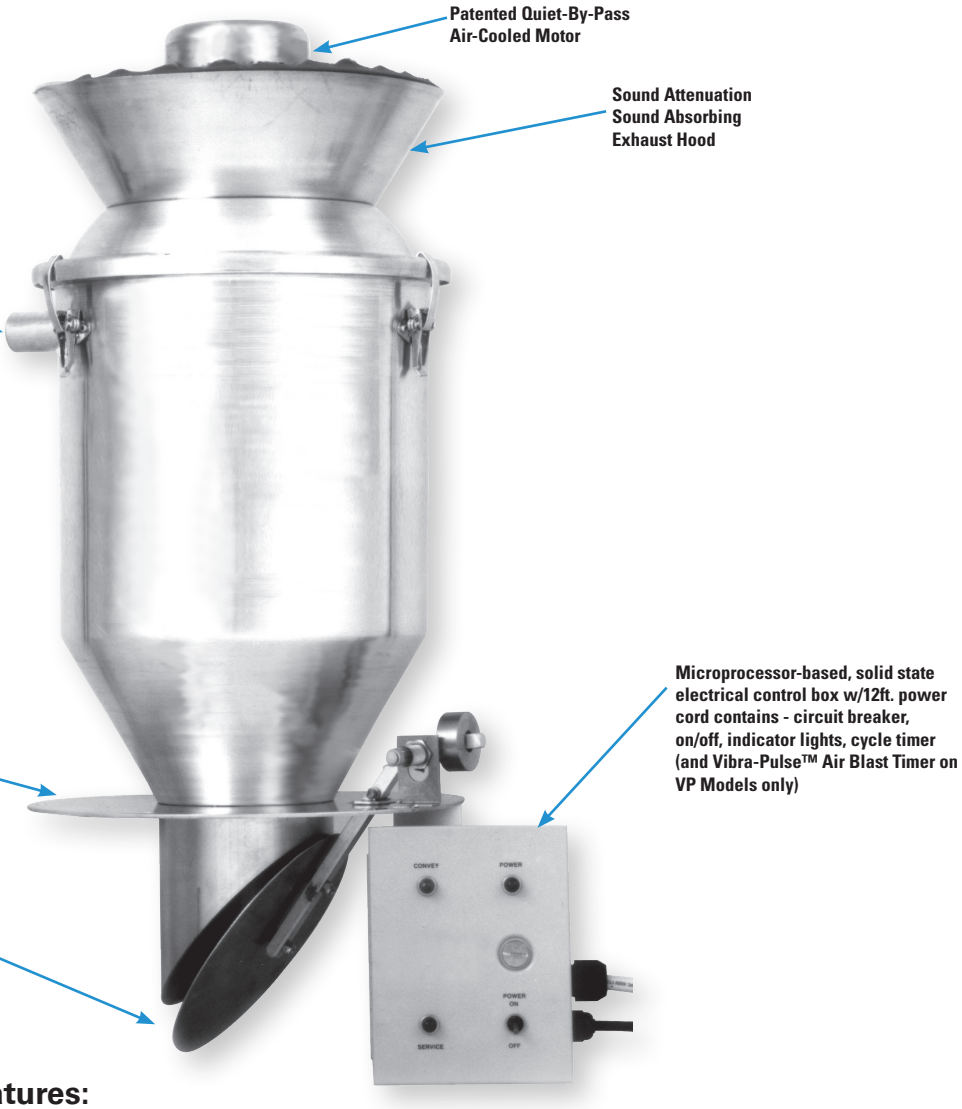
Optional: 240 Volt/1 Phase 50 or 60 Hz on Model SC150VP; call for quote
Note: All panels remote; Pulse clean system requires .5 SCFM at 80 PSI

Whisper Loaders™

SC1750 - Conveys approx. 1700 lbs/hr

This basic model is available in many variations.
See options on page 32.
Please don't hesitate to ask our salespeople for help!

WHISPER LOADERS



Includes 10 ft. of 1¾" I.D. flexible material hose, pick-up probe and clamps. Proportional options include (2) lengths of hose 10' long.

Base Model SC1750 Features:

- Spun & welded aluminum
- Sound attenuation
- Di-Ac filter (pellet or granual service)
- Electrical control box with power cord (12 ft.)
- Flexible hose with pick-up lance
- High-level control of receiving hopper
- Motor and turbine (vacuum producer)

Stainless Steel Model SC1750SS

- Same features as SC1750
- Welded stainless steel receiver

Self Cleaning Model SC1750VP

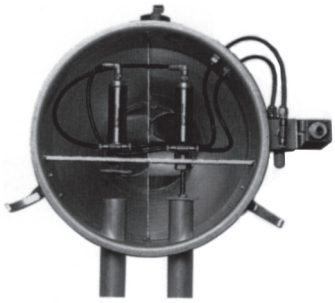
- Same features as SC1750
- Vibra-Pulse filter cleaning system

Integral Proportioning Model SC1750PLVP

- Same features as SC1750
- Vibra-Pulse filter cleaning system
- Integral proportioning
- Proportional control timer

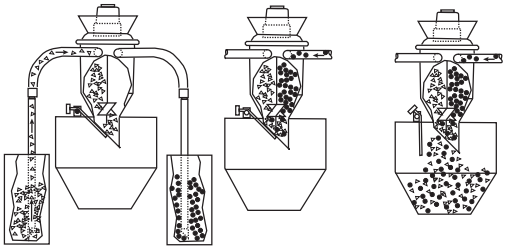
Optional: 240 Volt/1 Phase 50 or 60 Hz on Model SC150VP; call for quote
Note: All panels remote; Pulse clean system requires .5 SCFM at 80 PSI

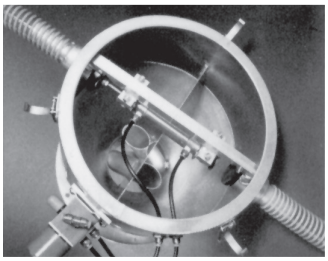
WHISPER LOADERS



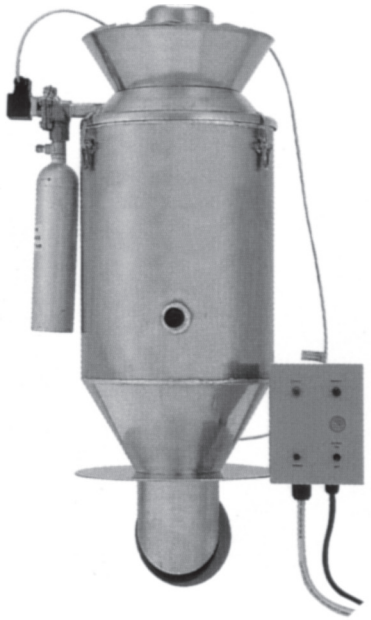
Proportional Control Timer
Microprocessor-based, solid state control timer with easy access proportion adjustable knob on outside of control enclosure (not pictured).

Interblend is a static internal blender used to mix two products without layering.





Integral Proportioning
Allows for the alternate conveying of two different materials. Using the optional Interblend element, a static internal blender will mix two products without layering.



Vibra-Pulse filter cleaning system is used for conveying regrind or dusty materials. Filter is automatically cleaned with a "pulse" of compressed air, which "shakes"

Replacement Parts

9" felt filter for SC1250VP and PLVP models.....PN#100280
9" DI-AC filter.....PN# 100216
Gasket for SC1250.....PN# 101261
14" felt filter for SC1500/1750VP and PLVP models.....PN#100293
14" DI-AC filter.....PN# 100086
Gasket for SC1500, SC1750.....PN# 101262

Replacement Part Kits

Model SC1250 Parts Kit PN# 100264
includes: (2) 9" DI-AC filters
(1) 9" dia. filter gasket
(2) sets-motor brushes

Model SC1500 Parts Kit PN# 100328
includes: (2) 14" DI-AC filters
(1) 14" dia. filter gasket
(2) sets-motor brushes

Model SC1750 Parts Kit PN# 100804
includes: (2) 14" DI-AC filters
(1) 14" dia. filter gasket
(2) sets-motor brushes

Powder Receivers
Models SC150PR3C and SC150PR3CSS incorporate pleated filters and pulse cleaning, resulting in efficient conveying of fine powders.

Motorless EZ Loaders

Motorless Venturi Loader

Single Entry EZ Loader Model NSO-1S
Virgin material model with sight glass

- Operates on compressed air
- Perfect for transporting material from drying hopper granulators or boxes
- Easy-to-use & install the EZ Loader is fully automatic; starting and stopping is controlled by the proximity sensor. Unit requires compressed air and 120/1/60 power, hook up hoses and it's ready to go
- Economical, no moving parts, no brushes to replace
- Fast conveys 1000 lbs. per hour from the press to 10' height
- Stainless Steel Construction, rust contamination is eliminated.

Specifications MOTORLESS EZ LOADER

Model	NSO1S	NSO2S	NSO3S
Air Pressure required	80 P.S.I.	80 P.S.I.	80 P.S.I.
Voltage required	120/60/1	120/60/1	120/60/1
Hopper Ht. & Diameter	18.5H x 8.25 Dia	18.5H x 8.25 Dia	18.5H x 8.25 Dia
Flange Diameter	5″	5″	5″
Material Line Size	1¼″, 10′ (supplied)	1¼″, 10′ (2 supplied)	1¼″, 10′ (supplied)

3 Base Models Available

Single Entry EZ Loader

For use with virgin material 1000 lbs per hour max throughput

Model NSO1S includes:

- Filter receiver assembly
- Air control assembly
- Ten feet of 1 1/4″ material hose and two hose clamps
- Ten feet of 3/8″ compressed air hose
- Proximity switch
- One 20' suction wand with venturi
- Operating and installation manual

Model NSO1S includes sight glass assembly

Dual Entry EZ Loader

For use with virgin/regrind 2000 lbs per hour max throughput

Model NSO2S includes:

- Filter receiver assembly
- Master air control assembly
- Slave air control assembly
- Two 10-foot lengths of 1 1/4″ material hose and four hose clamps
- Two 10-foot lengths of 3/8″ compressed air hose
- One proximity switch
- Two 20" suction wands with venturis
- Operating and installation manual

Model NSO2S includes sight glass assembly

Granulator Unloading EZ Loader

For use with virgin/regrind 1000 lbs per hour max throughput

Model NSO3S includes:

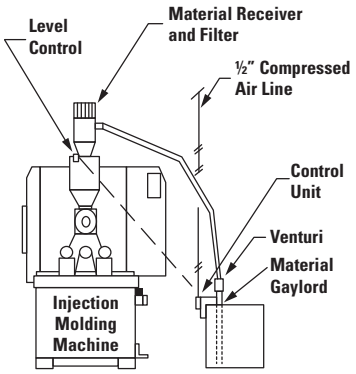
- Filter receiver assembly with mounting flange
- Air control assembly
- Ten feet of 1 1/4″ material hose and two hose clamps and 20" wand
- Ten feet of 3/8″ compressed air hose
- Venturi with coupler (or suction wand) to couple to granulator tube (tube OD must be specified)
- Operating and installation manual

Model NSO3S includes granulator exhaust assembly

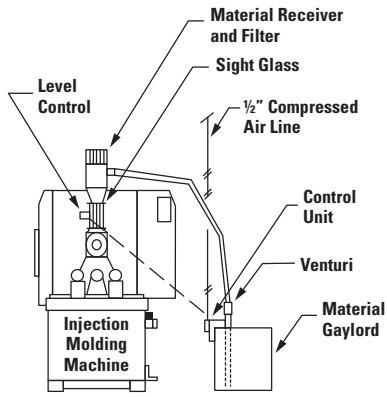
Motorless EZ Loaders

Typical Installation Arrangements

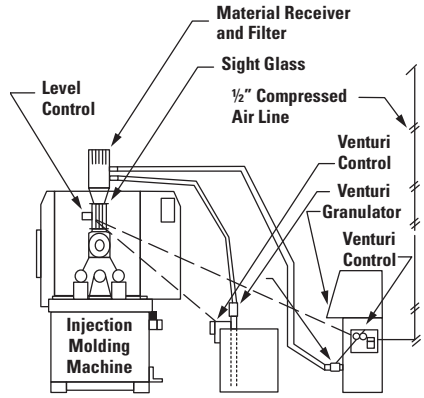
Hopper Mount
Virgin Material



Machine Mount
Virgin Material



Machine Mount
Virgin and Regrind Material



Options Available:

Sight Glass Assembly (6" height)

PN# 200202
Shown with level switch & optional magnet

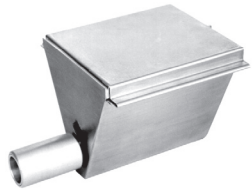
Granulator Exhaust Assembly

PN# 200207

Bullet Magnet

PN# 200237

Suction Box



PN# 200206

Spare Filter

PN# 200100

"Out-of-Material" Indicator

Light only

PN# 200229

Options Not Pictured

Proximity Switch
PN# 200191

Universal Wand
PN# 200215

Vibrator for Wand
PN# 200116

Bag Filter for Fines
PN# 200130

"Micro" EZ Loader

This small venturi loader is designed to convey CLEAN Virgin Material to small injection molding machines using a maximum of 25 pounds per hour of pelletized plastic material.

This small, lightweight, quiet unit is ideal for use on small machines running pelletized virgin material, or to convey color concentrate to color feeders. The receiving tube is of stainless steel so that material contamination will not take place, and it can be used with the EZ Loader sight glass and all of the other EZ Loader options. Just supply compressed air and 120/60/1 electric power to the unit and you are ready to load. The sensor starts and stops the unit so that conveying is fully automatic.

Specifications

Model	NSOM
Air pressure required	80 P.S.I
Voltage required	120/60/1
Receiving Tube Ht.	10"
Flange Diameter	5"
Material Line Size	1¼"

INCLUDES:
10' of 1-1/4 material hose with 20" band
10' of 3/8 air hose proximity switch

MICRO EZ LOADER

ifm efector® Level Sensors

Optimized to Sense Lower Density, Lower Moisture Plastics Regrind and Pellets!

ifm efector® raises the bar in sensing plastic materials. For years, ifm capacitive level sensors have been a proven solution for applications on loaders, blenders and grinders in the plastics processing industry.

Traditional capacitive sensors can detect high-density materials with high-moisture content. However, plastic materials are now being dried at higher temperatures producing very low moisture content. The resulting materials can cause sensing problems for traditional capacitive sensors.

ifm efector's new KI level sensor incorporates improved capacitive sensing electrodes and patented circuitry to detect low-moisture,
low-density materials. Combined, these innovations enable the KI sensor to perform in today's plastics processing applications.

IFM EFECTOR

Pushbutton adjustment simplifies setup
The KI Series point-level sensors feature an intuitive two-pushbutton function that calibrates the proper setpoint value and simplifies the setup process.
The sensor is quickly and easily adjusted for a specific application.

High temperature sensing durability
Because plastic materials are dried at extremely high temperatures, the KI sensor has a high temperature range of 230°F (110°C).

ESD tolerant and noise immune circuitry
The KI's robust design resists high levels of electrostatic discharge that can arc back to the sensor. Patented noise immune circuitry ignores interference from motor drives and switching

Ring LED allows visibility from long distance
A 360° ring LED display provides output status indication that is visible from long distance.

Plug-and-play installation
Quick-disconnect Micro DC and Micro AC units are available.

Output	Part Number
Micro DC, PNP, NO/NC	**KI5083**
Micro DC, NPN, NO/NC	**KI5082**
Micro AC, NO/NC	**KI0054**

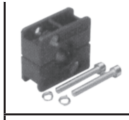
Specifications

Electrical Design	DC	AC
Wiring	3-wire	2-wire
Connection	Micro DC	Micro AC
Operating Voltage [V]	10…36	30…250
Current Rating [mA]	200	150 at 40C
Voltage Drop	<2.5	<10
Current Consumption [mA]	<20	–
Leakage current [A]	–	<1.7
Operating Temperatures [°F]	–13…176° (230° sensing capability)	
Protection	IP65/IP67	
Housing Material	Plastic (PET, PC and TPE)	

Cable Assemblies

Length	Type	Part Number
2 meter	DC	**EVC001**
5 meter	DC	**EVC002**
2 meter	AC/DC	**E18212**
5 meter	AC/DC	**E18213**

Mounting Accessories

Type	Description	Part Number
	30mm stainless steel mounting bracket	**U20303**
	30mm mounting cap	**E10077**

Sight Glass Magnets

Hopper Loader Sight Glass Magnet

SIGHT GLASS MAGNETS

Our Sight Glass Magnet is designed to capture tramp metal in Just-In-Time (JIT) hopper loaders. These powerful, compact 50 MGOe Rare Earth magnets are ideal for applications where a Clean-Flow™ magnet won't fit in the JIT system. The Sight Glass Magnet's cartridge hangs in the center of the hopper loader's glass tube from a stainless steel ring and handle. From this position, it prevents tramp metal from entering the molding machine, without interfering with the flow of material from the hopper.

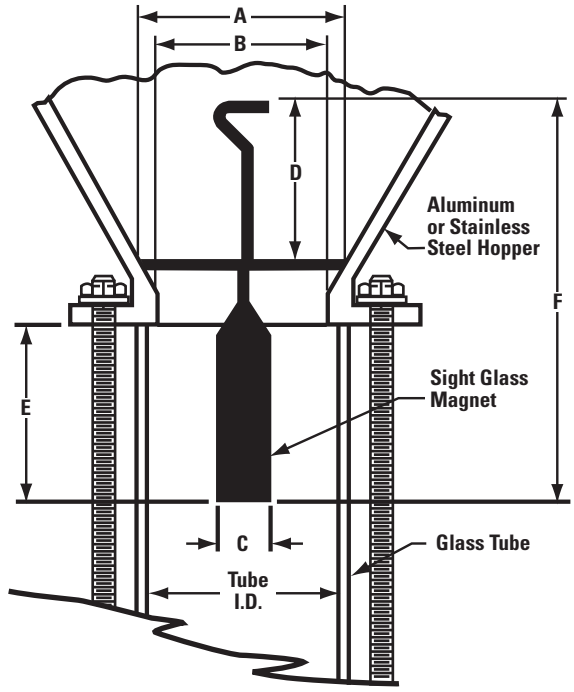
The Sight Glass Magnet is visible through the JIT's glass tube for easy inspection of tramp metal build-up. The magnetic pole located on the bottom of the cartridge allows tramp metal to collect in a protected area, preventing wash-off of the collected metal back into the product flow. Tramp metal should be cleaned from the magnet on a regular basis to ensure that build-up on the magnet doesn't affect its performance.

Features:

- Won't affect material level sensors that are mounted on the outside of the JIT's glass tube
- Bottom pole is magnetized to prevent wash-off of collected metal
- Four standard sizes available to fit your application
- Powerful rare earth magnetic cartridge
- Stainless steel, all-welded construction.

Specifications:

- 5⁄8″ diameter Sight Glass Magnets are recommended for hopper loaders with glass tubes under 2–1⁄4″ in diameter
- 1″ diameter Sight Glass Magnets are recommended for hopper loaders with glass tubes over 2–1⁄4″ in diameter
- Always select a Sight Glass Magnet with a ring diameter that is slightly larger than your hopper opening to ensure proper magnet location.



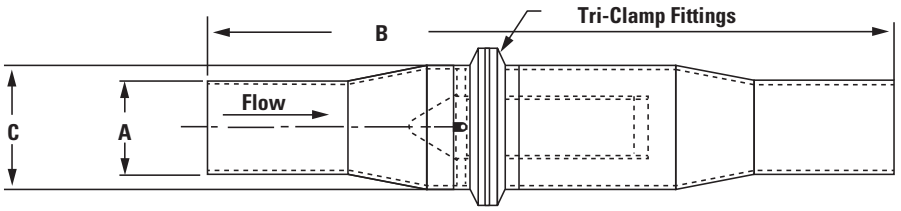
Part Number	Ring O.D. (A)	Magnet Dia. (C)	Handle Length (D)	Magnet Length (E)	Overall Length (F)
SGM1	1¾″	5⁄8″	1⅞″	2⅜″	4¾″
SGM2	2½″	5⁄8″	1⅞″	2⅜″	4¾″
SGM3	1¾″	1″	1⅞″	3 11⁄16″	6¼″
SGM4	2½″	1″	1⅞″	3 11⁄16″	6¼″

Torpedo In-Line Magnet

Vacuum Line Magnet

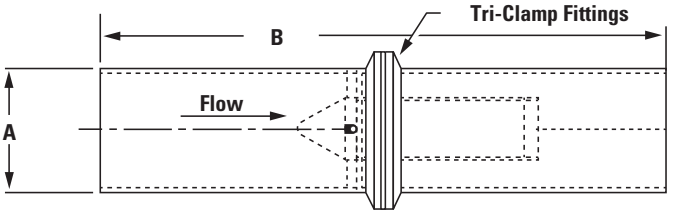
TORPEDO INLINE MAGNET

Part Number	Line Size A (O.D.)	Overall Length B
ITM112	1–½″	11 13/16″
ITM200	2″	9 1/16″
ITM212	2–½″	9 1/16″



Features:

- Welded stainless steel construction
- Powerful rare earth magnetic circuit
- Connecting ends are constructed of .065″ wall thickness tubing

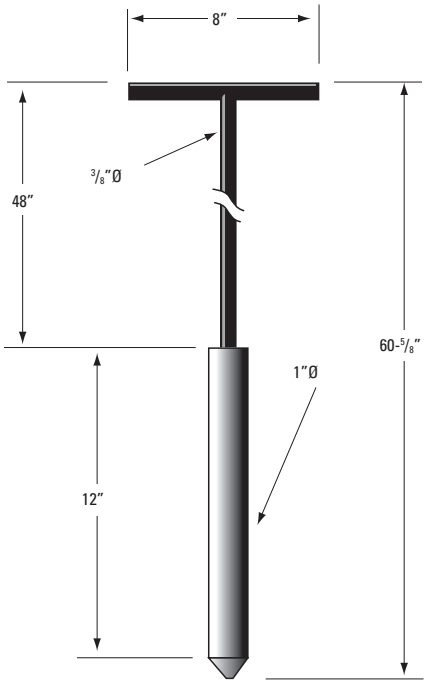


"T" Handle Magnetic Wands

"T" Handle Magnetic Wands

The DME Industrial Supplies "T" handle magnetic wand is an easy and effective way to safely sweep gaylords, regrind materials or other small batch additives. This prevents costly damage to screws and barrels and eliminaties clogged nozzles due to tramp metal entering the process. This "T" handle wand is lightweight with clout where it counts coming from a full 12-inch long, 1-inch diameter bullet tip magnet made
of power-balanced neodymium, permanent magnetic material. Optional handle and cartridge lengths are available. This high-quality tool is designed to save the molder production time and need for costly repairs.

'T' HANDLE MAGNETIC WANDS



Part Number TMW1

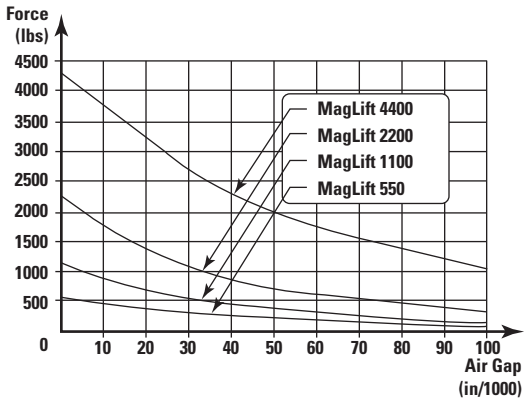
A

Bunting® MagLift™ Hand-Controlled Permanent Magnetic Lifters

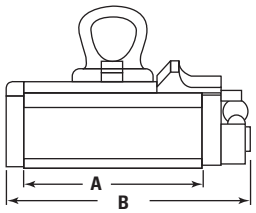
Bunting® MagLift Permanent Magnetic Lifters are powered by blocks of high-energy neodymium magnetic material. Switching is achieved by making one of these blocks reversible. In the "on" position, the reversible block is in parallel with the static blocks so that a concentrated magnetic field is produced at the pole feet for lifting. In the "off" position, the reversible block is rotated through 180° to provide a total magnetic short circuit within the lifter body.

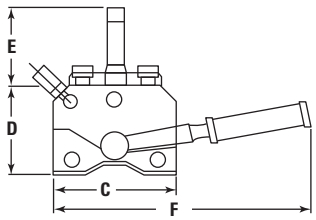
PERMANENT MAGNETIC LIFTERS

Force/Air Gap Curve – Hand Controlled



Standard Magnetic Lifter





Model	Lifter Weight (lbs)	Dimensions						Flat Section			Round Section		
		A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Safe Work Load (lbs)	Min. Thick-ness (in)	Max Length (inch-es)	Safe Work Load (lbs)	Max Dia-meter (in)	Max Length (in)
MAGLIFT275	9.9	4.3	5.9	3.0	2.4	2.1	5.9	275	0.6	60	110	10	60
MAGLIFT550	18.7	6.5	8.3	3.5	2.8	3.0	7.9	550	0.8	60	220	12	60
MAGLIFT1100	38.5	8.9	11.1	4.2	3.5	4.1	9.6	1100	1.0	80	440	16	80
MAGLIFT2200	80.3	12.8	15.4	5.4	4.1	4.4	14.4	2200	1.4	120	880	18	120
MAGLIFT4400	173.8	15.7	19.0	7.3	5.2	6.7	20.7	4400	2.8	120	1760	24	120

The maximum stated length is not the maximum diameter. (Always work within the stated Safe Work Load)
Above values are based on cold-rolled mild steel.

Bunting® Drawer Magnets

Trap Tramp Metal

Protect Product Purity and Equipment with Bunting Permanent Magnetic Drawer Filters and In-line Separators
You can buy a bewildering variety of metal separation products from dozens of suppliers these days. As you might expect, cost and performance vary widely. So it pays to choose with care.

You may be surprised to discover how reasonably priced our separation equipment is especially given its reputation for being the best. All Bunting products featured in this catalog use powerful permanent magnets and provide dependable protection year after year with little or no maintenance. Bunting Permanent Magnetic protection won't "wear out," either. In fact, products featured in this catalog will still be working reliably long after your present molding machines and conveying equipment have been replaced.

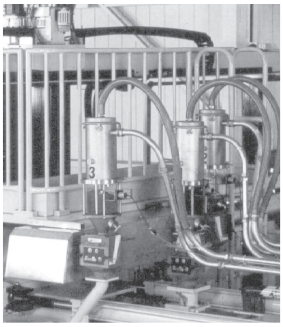
So count on Bunting for effective, economical permanent magnetic separation. We're leaders in the field, first with significant innovations- like the original No-Spill™ Slide Gate, and now with redesigned magnetic drawer filters with Temperature Compensated Rare Earth Cartridges™ engineered for increased holding force and collection area.

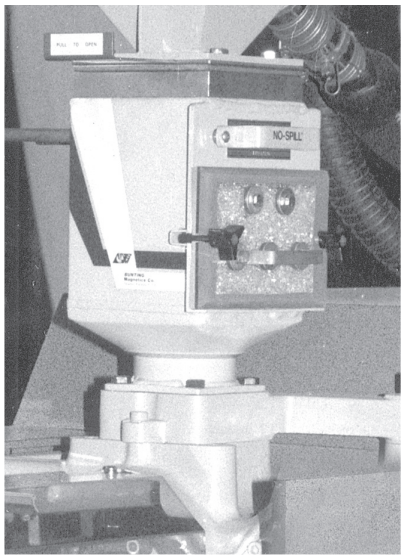
You'll find Bunting products widely used to reduce tramp iron contamination not only in plastics processing and manufacturing but in the food, chemical and bulk solids industries as well. For over 40 years, American industry has relied on Bunting as a single-source supplier for the best in magnetic separation equipment.

The Industry Standard for Extruders, Injection and Blow Molding Equipment

Model FF4600-PLS
(Shown with optional rear dump tube & liquid port)

Model FF4400-PL





Versatile Design
Bunting Magnets are the industry standard for molding machines, extruders and many other applications. Process material makes direct contact with a double row of magnetic cartridges which provide dependable, constant magnetic protection that will not wear out. FF Series Magnetic Drawer Filters offer proven protection at key points… between bag dumps and conveying lines, at weigh station cyclone receivers, hoppers, mixers, and other locations where contaminants jeopardize production runs and equipment.

All Bunting Drawer Magnets now have greater surface holding force to capture tramp metal better than ever before. That means more complete removal of contaminants and less chance of "wipe-off."

LIFETIME GUARANTEE
We guarantee the durability and performance of Bunting Drawer Magnets for as long as you own them against defects in materials and workmanship. For years Bunting Drawer Magnets have been the first and most popular choice worldwide. Now they're even better, thanks to our powerful magnetic cartridges and heavy-duty drawer design. Both are included in our lifetime guarantee.

Drawer Magnets - Not Drilled

Bunting®

(Shown with optional rear dump tube & liquid port)

No Waiting For Saving!!
These units have standard flange sizes so you can drill them to fit your machine and put them to work right away! Bunting is far and away the most popular drawer magnets in plastics! Don't settle for a look-alike brand; get the real thing, at real savings, right now!!

A

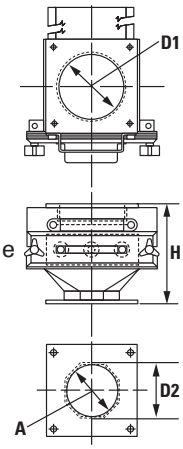
BUNTING DRAWER MAGNETS

Part Number	Drawer Model	Features	Top/Bottom Flange Size	Top Opening	Bottom Opening
DR1600D	LP1600PL	Low Profile	6″ × 6″ sq.	4¼″ dia.	2⅞″ dia.
DR2100D	FF4600PLS	w/Slide Gate	6″ × 6″ sq.	4¼″ dia.	2⅞″ dia.
DR2200D	FF4800PLS	w/Slide Gate	8″ × 8″ sq.	4¼″ dia.	2⅞″ dia.
DR3500D	FF4800PLS	w/Slide Gate	8″ × 8″ sq.	6″ dia.	5½″ dia.

Drawer Magnets - Low Profile

Bunting®

When headroom is critical, you need Bunting's Low Profile Drawer Magnet. No other drawer magnet can compare to Bunting's proven design in a space-saving 5–11/16″ overall height. You get a single row of the exclusive Power-Balanced Permanent Magnetic Cartridges, clear polycarbonate drawer front, and rigid 10-gauge steel construction—the same features that make Bunting standard drawer magnets the most popular in the industry. Where you have additional clearance, you can even install these units with our original No Spill™ Slide Gate option. Rare earth magnetic cartridges are also available to trap and hold extremely fine or marginally magnetic ferrous material. We'll pre-drill the unit's rugged 1/4″ thick flanges to your specifications at no extra charge.



S Interior size
H Height
D1 Diameter of top flange opening
D2 Maximum transition diameter
A1-A5 Standard throat diameters

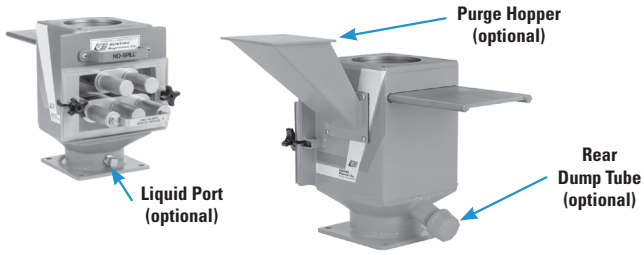
BUNTING DRAWER MAGNETS

Model	S	H	D1	D2	A1	A2	A3	A4	A5
LP1600PL▼	6 × 6	5 11/16	4	4⅜	2	2⅜	2⅞	3⅜	3⅞
LP1600PLS ❖ ▼	6 × 6	7¼	4	4⅜	2	2⅜	2⅞	3⅜	3⅞
LP1800PL	8 × 8	5 15/16	6	6⅜	4	4	5	5	6
LP1800PLS ❖	8 × 8	7½	6	6⅜	4	4	5	5	6

❖ Slide-Gate ▼In stock with standard flange sizes - not drilled

Drawer Magnets - Standard

Bunting®



Purge Hopper

Our magnetically protected Purge Hopper speeds clean-out of your equipment when changing color or compound. It also lets you quickly purge the machine and hand feed new material for a test or a short run without sacrificing magnetic protection or taking the time to empty your hopper.

Rear Dump Tube

This option lets you divert and collect material remaining in the hopper when a run has been completed, without running it through your molding equipment.

Liquid Port

The Liquid Port allows you to inject color additive into the resin. It's especially convenient for trial runs, short runs, or prototyping. The port can also be used to hold a temperature probe.

Custom Drawer Magnets

Model Number	Throat Size*
FF4400PL	1¾" or smaller
FF4600PL	1⅞" or 3⅞"
FF4800PL	4" to 6"
FF4100PL	6⅛" to 8"

* Side to Side (Square) or Diameter (Round)

BUNTING DRAWER MAGNETS

Custom Drawer Magnets w/Slide-Gate

Model Number	Throat Size*
FF4400PLS	1¾" or smaller
FF4600PLS**	1⅞" or 3⅞"
FF4800PLS**	4" to 6"
FF4100PLS	6⅛" to 8"

*Side to Side (Square) or Diameter (Round)
**In stock with standard flange sizes - not drilled

Accessories For Drawer Magnets

Item
Purge Spout
Dump Tube
Liquid Port

Stainless Steel, Alnico and Rare Earth Drawer Magnets

The Bunting Stainless Steel Drawer Magnet housing is the right choice for corrosion resistance or when "clean room" standards must be met. If your process line handles resins heated to exceptionally high temperatures, order your magnetic drawer filter equipped with Bunting Alnico Magnets. Their magnetic strength will not diminish in temperatures as high as 1000°F.

If your application involves extremely small metal fines or contaminants that are only marginally magnetic, you may need the extra magnetic energy of rare earth magnets. Rare earth drawer filters are supplied with stainless steel housings to prevent the entire assembly from becoming magnetized by these extremely powerful magnets. Both stainless steel and stainless steel/rare earth models are available in several standard sizes and can also be custom made for your application.

All Types Are Also Available in
SELF-CLEANING MODELS

Save time two ways as you protect product purity and equipment. You can clean in place with one quick pull or remove the whole drawer assembly for safe off-the-machine maintenance. Bunting Drawer Magnets are the first to offer such convenient cleaning. Each self-cleaning unit has extra-long magnetic cartridges that fit inside stainless steel sleeves attached to the see-through polycarbonate drawer front. Tramp metal collects on sleeve surfaces and falls from the sleeves as they are pulled clear of the magnetic cartridges and the drawer housing. No wiping or brushing required.

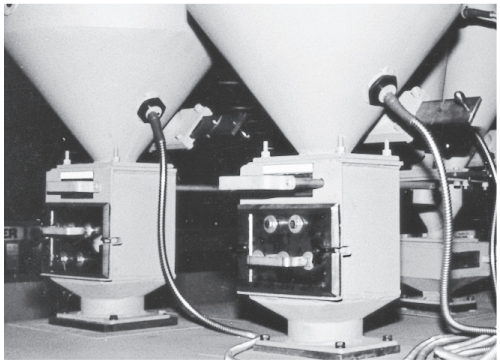
Now you can upgrade Bunting Standard Drawer Magnets by replacing the drawer module. Self Cleaning Drawer Modules are available to retrofit all new FF Series Models 4400, 4600, 4800 and 4100 (with or without Slide Gate option) manufactured after August 1, 1989. Just specify your Drawer Magnet model number when ordering.

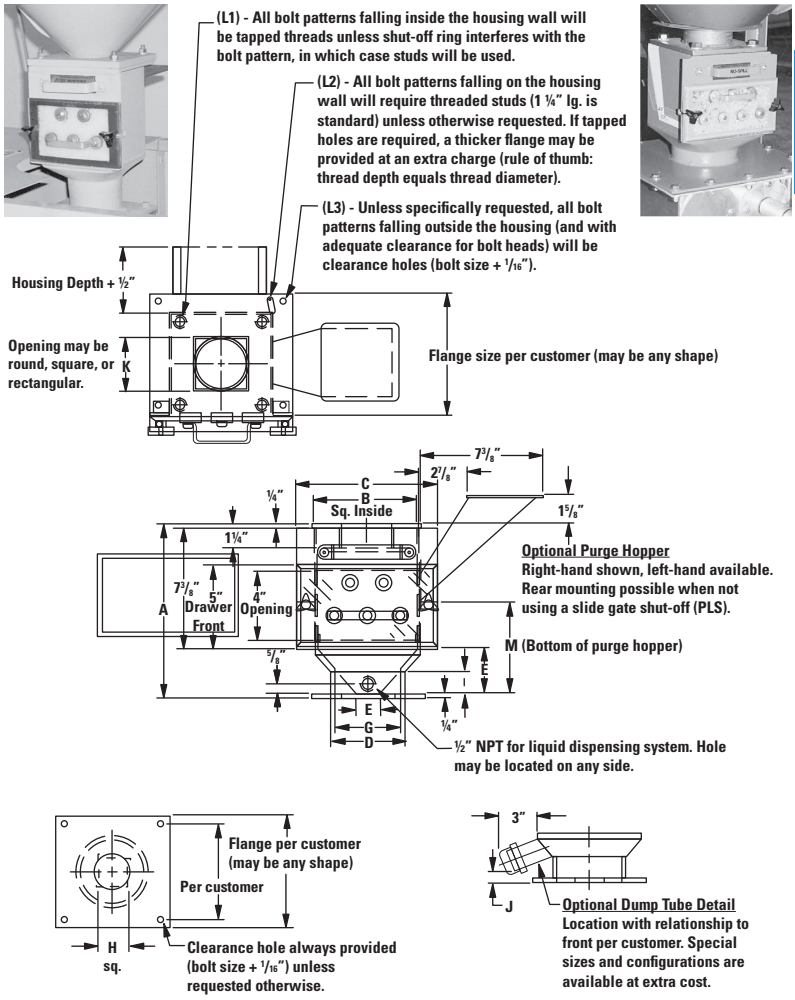
Ask our knowledgeable salespeople for more information.

A

Easy Installation

Each of the four standard FF Series units is available with the original No-Spill™ Slide Gate - Bunting designed and patented - to provide safer and more convenient cleaning. All models are also available with self-cleaning drawer modules. Flanges are pre-drilled to OEM or customer specifications. Be sure to request the options, flange specifications and hole locations you want when ordering. Standard and self-cleaning models now have identical housings. Standard units built after August 1, 1989 can be retrofit for self-cleaning operation simply by ordering a corresponding self-cleaning drawer module.





Dimensions

Model	FF4400PL/PLS	FF4600PL/PLS	FF4800PL/PLS	FF4100PL/PLS
A	10–½"	10–⅝"	10–⅞"	Varies
B	4 × 4"	6 × 6"	8 × 8"	10 × 10"
C	6–½"	8–½"	10–½"	12–½"
D	2–⅝"	4–⅜"	6–⅜"	Varies
E	2–⅝"	2–¾"	3"	Varies
F	⅞"	1–¾"	3–⅛"	Varies
G	2–⅛"	3–⅞"	6"	Varies
H	1–½"	2–¾"	4–¼"	Varies
I	1–11/32"	1–5/16"	1–11/32"	Varies
J	⅜"	7/16"	¾"	Varies
K	3"	5"	6–¾"	8 ¾"
L1 L2 L3	Per	Customer	Specifications	
M	6–⅜"	6–½"	6–¾"	Varies

FF Series Drawer Filter Order/Quote Request

ONLINE ORDER FORM

Company: _____ Customer Account Number: _____ PO# _____

Address: _____ Quote #: _____ Due Date: _____

_____ Date: _____

_____ Salesperson: _____

_____

Contact: _____ Email: _____

Phone: _____ Fax: _____

Project Reference: _____

☐ THIS IS AN ORDER ☐ THIS IS A QUOTATION REQUEST

Quantity	Bunting Model No.	Description	Unit Price	Amount

Optional Equipment

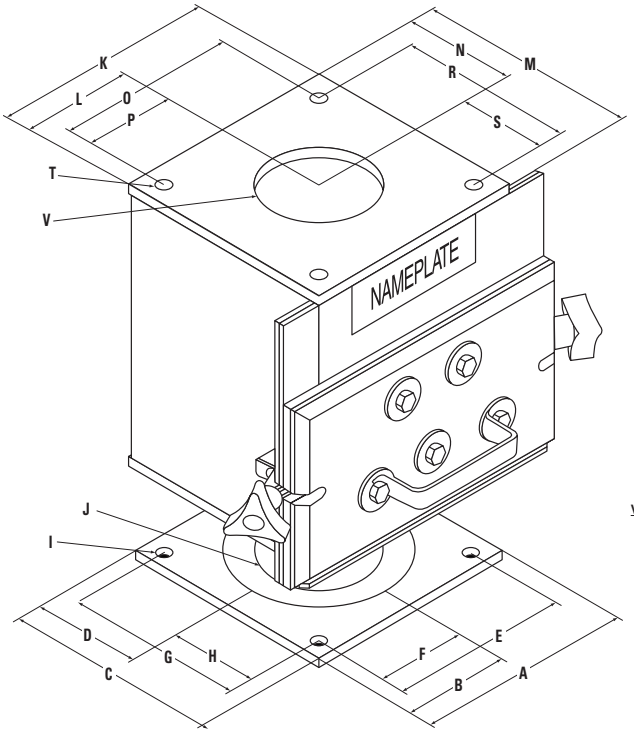
☐ Slide gate Shut-off ☐ With Discharge Dump Tube ☐ Rear ☐ Other _____

☐ With Purge Hopper ☐ Tapped Hole for

☐ R.H. Side ☐ L.H. Side Liquid Dispensing System

☐ Other _____

INFORMATION REQUIRED FOR ORDERING OR QUOTATION REQUEST



ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq

Top Flange – Operator Side (Front)

K	S
L	*T Thread Size Used
M	☐ Threaded Holes ☐ Studs
N	V
O	☐ Round
P	☐ Square
R	Front to back
	Side to side

*Studs will be required if bolt pattern falls on housing body

Bottom Flange – Operator Side (Front)

A	H
B	I
C	J
D	☐ Round
E	☐ Square
F	☐ Rectangle
G	Front to back
	Side to side

Make of Press: _____ Serial No. _____

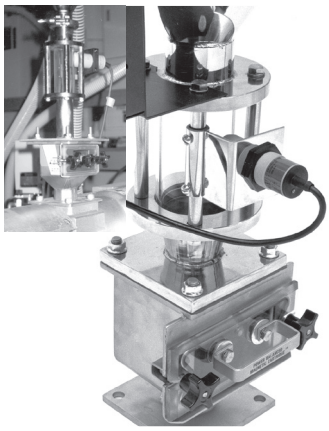
Model: _____ Screw Size: _____ Ounce: _____

Make of Hopper: _____ Hopper Capacity: _____ Lbs.

Please fax this completed form to: 248-544-5113 or toll free US 888-808-4363
or
Email to: DME@dme.net

Mini-Loader Magnet

Bunting®



Just-In-Time Magnetic Separation

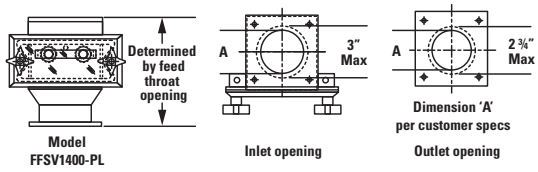
- High quality
- Easy mounting
- Styles available

Many plastics processors are turning to smaller volume, closed-loop systems. These "Just-in-Time" systems dry resin at a central point and then convey small amounts to the molding machine. Seeing a special need for magnetic protection against ferrous contaminants in such operations, Bunting Magnetics now manufactures two drawer magnets specifically designed for these systems.

Mounted on the throat of the processing machine, both of these drawer magnets come with Bunting's exclusive Power Balanced Magnetic Cartridges® and an O-ring seal to prevent air leaks. The FFV Series of drawer magnets are designed to withstand pressures up to 15 in-hg without leakage. A clear polycarbonate drawer front allows easy monitoring of resin flow and tramp metal collection. The cartridge drawer pulls out of the housing for easy cleaning.

The FFV-1400-PL has a housing manufactured from 12-gauge mild steel. It captures ferrous contaminants with two ceramic magnetic cartridge and has a rod baffle to direct the flow of resin over the cartridges. In applications where extremely small fines or weakly magnetic contaminants are a problem, this drawer magnet can be ordered with two high-energy rare earth magnetic cartridges. The housing is then manufactured from 302/304 stainless steel and is designated by part number FFSV-1400-PL-npb. This unit has a 20 oz. capacity, a maximum inlet diameter of 3 inches, and a maximum outlet diameter of 2¾".

Part Number	Description
FFV1400PL	Mild Steel Unit
FFSV1400PL	Stainless Steel Unit



MINI LOADER MAGNET

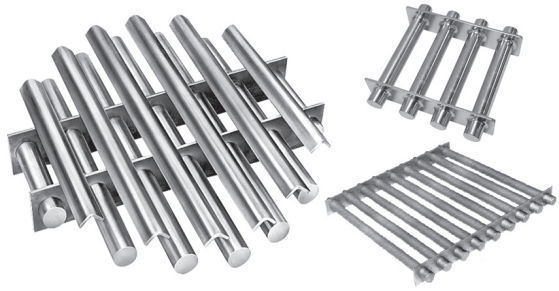
Hopper Magnets-Grate Style

Bunting®

Bunting Grate-Style Hopper Magnets come in a variety of shapes and sizes for use in round, square, or rectangular hoppers, chutes, housings, and bins. They are ideal for trapping tramp iron and ferrous objects such as nuts and bolts in free-flowing materials conveyed by gravity. Selection tip: Grates should have at least twice the cross-sectional area of the hopper outlet opening.

Standard units feature 1" diameter Bunting Power-Balanced Magnetic Cartridges™ encased in 304 stainless steel and mounted on 2" centers - with angle baffles to help direct product flow over the cartridges. Standard grate diameters range from 4" to 12".

HOPPER MAGNETS GRATE STYLE



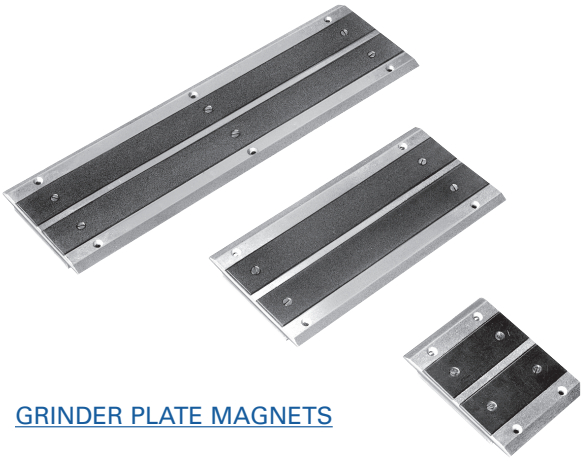
Other sizes and rare earth models are available on request. Square-tube cartridges with ceramic magnets are available in square or rectangular stainless steel frames. Because they have an especially strong magnetic field that allows mounting on 4" centers, they're ideal for use where bridging may be a problem. Rare earth models are also available.

Round Hopper Magnets	
Size	**Part Number**
4"	**GR4ACR**
6"	**GR6ACR**
8"	**GR8ACR**
10"	**GR10ACR**
12"	**GR12ACR**

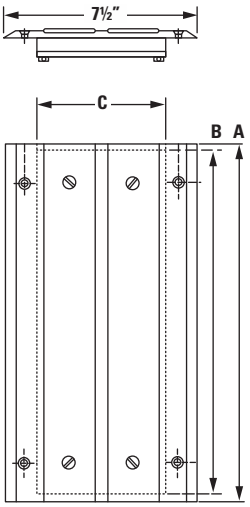
Square Hopper Magnets	
Size	**Part Number**
4" × 4"	**GS4ACR**
6" × 6"	**GS6ACR**
8" × 8"	**GS8ACR**
10" × 10"	**GS10ACR**
12" × 12"	**GS12ACR**

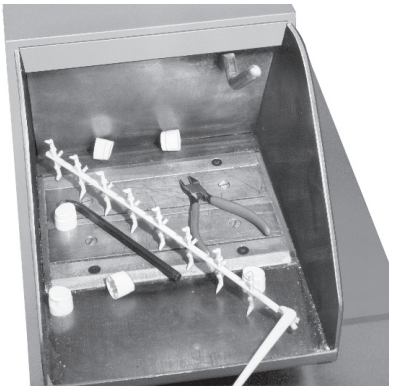
Grinder Plate Magnets

Bunting®



GRINDER PLATE MAGNETS





Simple, Rugged Design & Construction for A Lifetime of Use

Your regrind operation runs an extra risk of tramp metal contamination. Now you can protect it easily and economically with Bunting Grinder Plate Magnets. They install easily in your granulator's feed tray to attract and hold ferrous metal before it can reach internal parts. Grinder vibration won't shake even misplaced hand tools or large ferrous trash from this powerful Ceramic V permanent magnet.

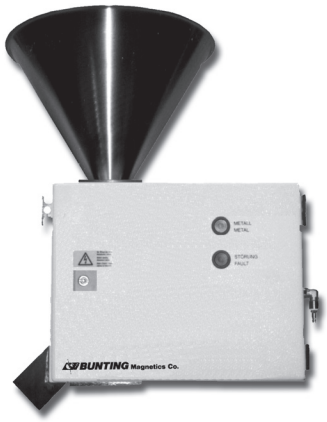
Each Grinder Plate Magnet is manufactured with a rugged cast aluminum frame. Back plate and magnetic pole face are made of mild steel. Specify grinder feed tray dimensions when ordering. To install, just cut an opening in the feed tray and bolt the pre-drilled flange of the magnet to the tray, using the holes and hardware provided.

Bunting Granulator/Grinder Plate Magnets

Size	Part Number	Dimensions		
		A	B	C
5½" × 7½"	**GPM555**	5½"	5"	5"
7½" × 7½"	**GPM757**	7½"	7"	5"
9½" × 7½"	**GPM959**	9½"	9"	5"
11½" × 7½"	**GPM11511**	11½"	11"	5"
13" × 7½"	**GPM13125**	13"	12½"	5"
15" × 7½"	**GPM15145**	15"	14½"	5"
17" × 7½"	**GPM17165**	17"	16½"	5"
19" × 7½"	**GPM19185**	19"	18½"	5"
21" × 7½"	**GPM21205**	21"	20½"	5"
23" × 7½"	**GPM23225**	23"	22½"	5"

Gravity-Fed Metal Detection System

Bunting®



Reliable Automatic Detection and Rejection of Metal Contaminants. The Bunting HS Series Metal Detector is an electronic metal detection and separation system designed to automatically detect and reject all metals in free-flowing, gravity-fed bulk materials, such as plastic granules, flakes, pellets, feeds, grains, cereals and more.

Precise Control and Operation. Equipped with a single-coil, high-frequency detection system and a rapid air-powered rejection flap, Bunting's HS units detect and remove ferrous and nonferrous metallic contaminants from free-flowing bulk materials. What's more, features like adjustable sensitivity provide complete control over product quality and ensure precise detection with minimal loss of good product.

Compact and Durable. Bunting HS Detectors are compact and durable. They have a single electronics board and are completely enclosed in dust-tight, painted steel housings, with four mounting brackets included.

Virtually Maintenance Free. Install Bunting's HS Detector into your free-fall processing system. It is self-monitoring and virtually maintenance free, so you can literally set it and forget it. The HS continuously monitors the sensor, the air pressure (with a compressed air filter/regulator to maintain air quality to the air-actuated solenoid), the power supply (self-adjusting to any voltage from 110V to 230V), and the detector's mechanical functions.

These Units Are Also Self-diagnosing and Require No Lubrication!

Specifications:

Housing: Unit is completely enclosed in a steel cabinet with four mounting brackets. Painted surface color: RAL 1013 Pearl White. Withstands loads up to 250 lbs. allowing for direct mounting of mixers, batch feeders, etc. Undrilled mounting flange included.
Detection: Single coil, high frequency
Electronics: Single electronics board. 110-230V single phase.
Reject: Air-operated, lifetime-lubricated reject flap.
Monitoring: Sensor, air pressure, and reject flap position continuously monitored.
Air: 70 psi minimum. Air pressure regulator with automatic water drain.
Operating Temperature: 154°F maximum

GRAVITY FED METAL DETECTION

Part Number	Description
Metal Detector/Separator	
MDHS9050	Metal Detector w/1.96" Inlet diameter
MDHS9100	Metal Detector w/3.94" Inlet diameter
MDHS9150	Metal Detector w/5.91" Inlet diameter
MDHS9200	Metal Detector w/7.87" Inlet diameter
Options for Metal Detector/Separator	
MDHSF050	Funnel for MDHS9050
MDHSF100	Funnel for MDHS9100
MDHSF150	Funnel for MDHS9150
MDHSF200	Funnel for MDHS9200
FF4600PL	6" Square double row drawer magnet for MDHS9050 & MDHS9100
LP1600PL	Low Profile series 6" Square single row drawer magnet for MHDS9050 & MDHS9100
FF54600PLNH7	6" Square double row drawer magnet for MDHS9050 & MDHS9100 (for "Hi-Intensity" loads)
GCS	Gaylord Cleaning Station

Machine-Mounted All-Metal Separators for Extruders, Injection and Blow Molders For Choke-Feed Applications

Bunting® Machine-Mounted All-Metal (MMS) Separators provide efficient rejection of both ferrous and non-ferrous metal contaminants and fit where headroom is limited. Designed especially for choke-feed applications, they can bolt directly to the infeed of processing equipment and support the weight of hoppers and bins. A fast pneumatic rejection mechanism aided by precise timing results in accurate cycling and conservation of good material.

Features include:

- Separators install directly above infeed
- Rugged housings allow mounting other equipment
- Precise timing results in accurate cycling
- Fast pneumatic reject mechanism reduces good product waste
- Slide gate rejection design eliminates contamination “leaks”

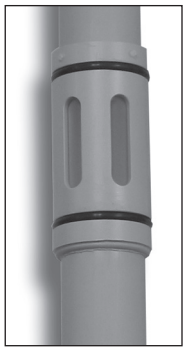
MMS METAL SEPARATORS

A

The Dissipator® Series Shock-Free Vacuum Wands

- Eliminates static electric shocks; improves employee welfare and safety.
- Eliminates need for ground wire in hose*; speeds installation; reduces maintenance cost.
- Slick and smooth inner surface; increase throughput; allows free flow of powder, pellets, flakes, or granules.
- Durable, high-impact polymer construction withstands use temperatures to 150°F
- Lightweight, easy to handle.

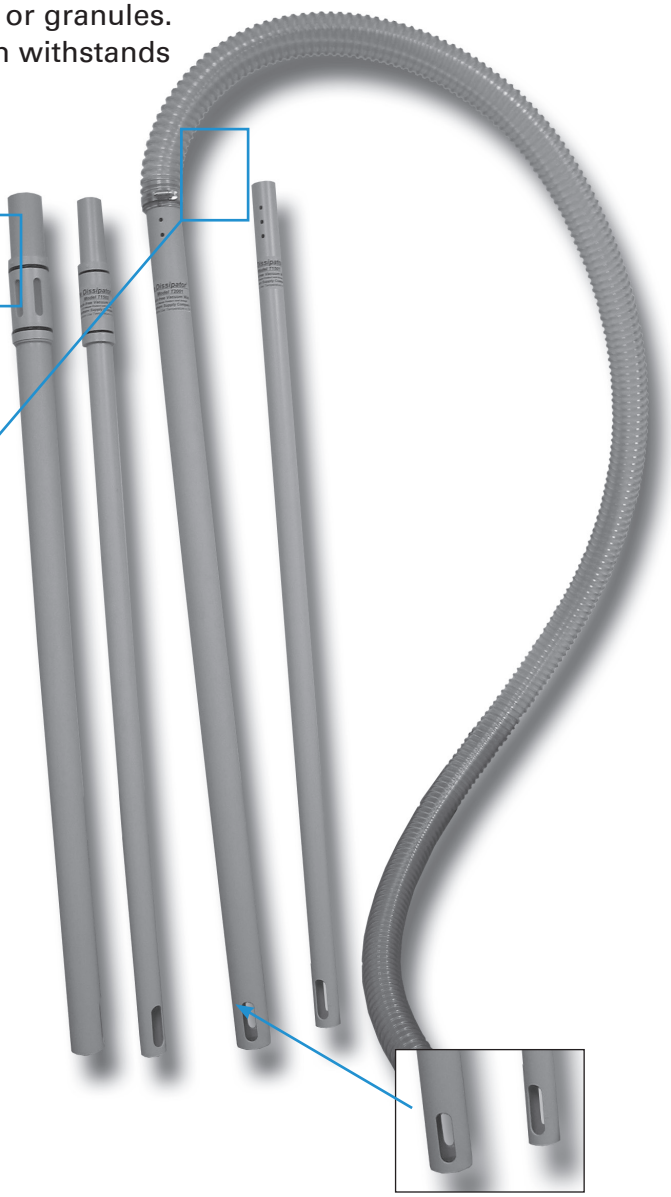
*Ground wire recommended in hazardous areas. Refer to group and class installation guidelines.



Adjustable Vents

Vent Holes

Built-in venting!
(to aid in lifting certain materials)



Patented Linear Standoff Design!
Prevents intake blockage from the bottom of the box or bag.

PICK-UP WANDS

Model Number	Description
T1501	48″ OAL, 1½″ dia. w/vent holes
T2001	48″ OAL, 2″ dia. w/vent holes
T1502	48″ OAL, 1½″ dia. w/adj. vents
T2002	48″ OAL, 2″ dia. w/ adj. vents

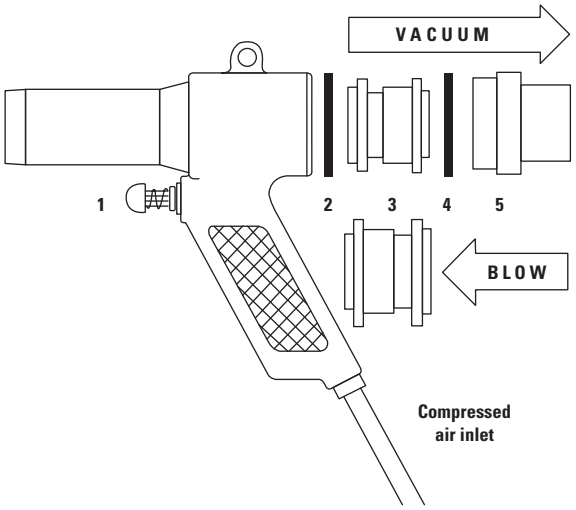
Wonder Gun

The Wonder Gun will convey material to hoppers on molding machines. The swirling vortex action enables it to convey many granular or powered materials to heights of 25 ft. or horizontal distances up to 50 ft. Average conveying rates are approximately 7 lbs/minute.

Attached to filtered shop air the Wonder Gun will act as a large area blow gun or with a simple reversal of the venturi a vacuum cleaner or material transfer pump. The venturi effect will boost incoming air flow by more than 12 times! This means, for example, that a 10 CFM supply will result in an output flow of approximately 120 CFM!

Wonder Gun Includes: Two-Way Gun, Vacuum Bag and 7½" Bench Nozzle.

10' Hose: Crush-Proof Hose with Cuffs.



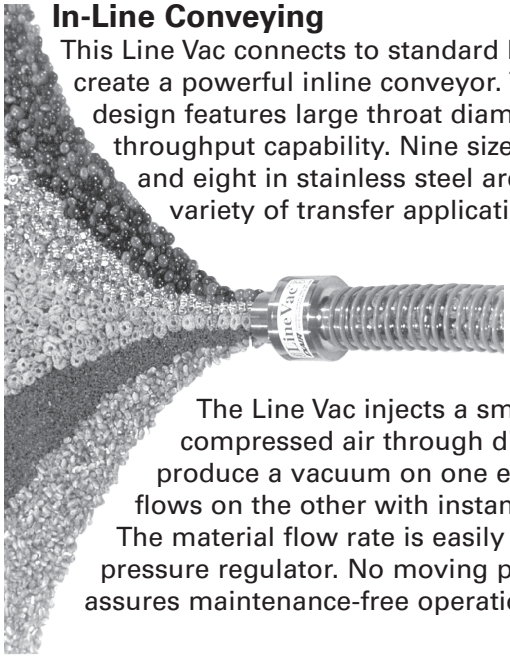
1 Body
2 O-Ring
3 Venturi
4 O-Ring
5 End section

WONDER GUN

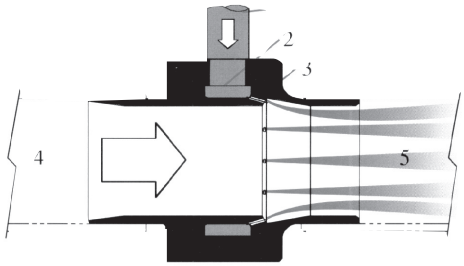
Conveys Parts, Materials & Waste - with No Moving Parts!

In-Line Conveying

This Line Vac connects to standard hose or pipe to create a powerful inline conveyor. The compact design features large throat diameters for maximum throughput capability. Nine sizes in aluminum and eight in stainless steel are suited to a wide variety of transfer applications.



The Line Vac injects a small amount of compressed air through directed nozzles to produce a vacuum on one end and high output flows on the other with instantaneous response. The material flow rate is easily controlled with a pressure regulator. No moving parts or electricity assures maintenance-free operation.

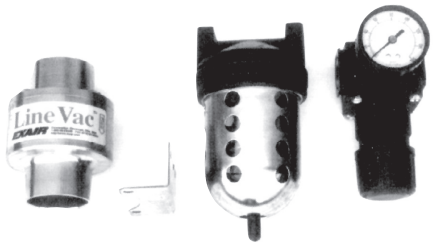


How Line Vac Works

(1) Compressed air flows through the inlet into an annular plenum chamber
(2) It is then injected into the throat through directed nozzles
(3) These jets of air create a vacuum at the intake
(4) The vacuum draws material in and accelerates it through the unit at long vertical or horizontal distances.

LINE VAC

Line Vacs are available in many sizes in both aluminum and stainless steel



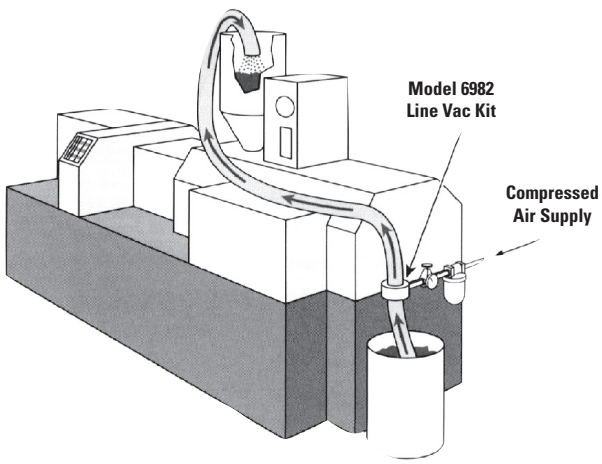
Line Vac Kit includes a Line Vac, mounting bracket, filter separator and a pressure regulator

Note: For air consumption specifications or for CAD data, please contact DME.

The Problem: Injection molding machines transform plastic pellets into various plastic products. The pellets are gravity fed from a hopper on top of the machine. The "bucket and ladder" method of replenishing the hopper was inefficient and expensive.

The Solution: A Model 6982 1–1/4" Line Vac Kit is used to convey the pellets up to the hopper. The mounting bracket included with the kit is used to secure the Line Vac to the machine. A filter ensures no contamination of the plastic material and a regulator controls the plastic flow rate.

Unlike mechanical transfer systems that break down or wear out, the Line Vac has no moving parts. This low-cost method of conveying gives precise control of material flow into the hopper.



LINE VAC

Aluminum Line Vac Only

Model #	Description
6080	¾" Aluminum Line Vac Only
6081	1" Aluminum Line Vac Only
6082	1-¼" Aluminum Line Vac Only
6083	1-½" Aluminum Line Vac Only
6084	2" Aluminum Line Vac Only
6085	2-½" Aluminum Line Vac Only
6086	3" Aluminum Line Vac Only
6087	4" Aluminum Line Vac Only
6088	5" Aluminum Line Vac Only

Aluminum Line Vac KIT

Model #	Description
6980	¾" Aluminum Line Vac Kit
6981	1" Aluminum Line Vac Kit
6982	1-¼" Aluminum Line Vac Kit
6983	1-½" Aluminum Line Vac Kit
6984	2" Aluminum Line Vac Kit
6985	2-½" Aluminum Line Vac Kit
6986	3" Aluminum Line Vac Kit
6987	4" Aluminum Line Vac Kit
6988	5" Aluminum Line Vac Kit

Kit includes Line Vac, mounting bracket, filter separator and pressure regulator

Stainless Steel Line Vac Only

Model #	Description
6060	¾" SS Line Vac Only
6061	1" SS Line Vac Only
6062	1-¼" SS Line Vac Only
6063	1-½" SS Line Vac Only
6064	2" SS Line Vac Only
6065	2-½" SS Line Vac Only
6066	3" SS Line Vac Only
6067	4" SS Line Vac Only

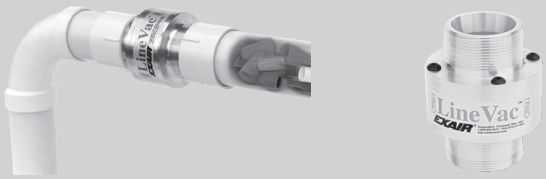
Stainless Steel Line Vac KIT

Model #	Description
6960	¾" SS Line Vac Kit
6961	1" SS Line Vac Kit
6962	1-¼" SS Line Vac Kit
6963	1-½" SS Line Vac Kit
6964	2" SS Line Vac Kit
6965	2-½" SS Line Vac Kit
6966	3" SS Line Vac Kit
6967	4" SS Line Vac Kit

Kit includes Line Vac, mounting bracket, filter separator and pressure regulator

Accessories

Model #	Description
6995	Mounting Bracket for ¾" & 1"
6996	Mounting Br. for 1-¼" & 1-½"
6997	Mounting Br. For 2" & 2-½"
6998	Mounting Br. For 3" & 4"
6999	Mounting Br. For 5"
9001	Auto Drain Filter Sep. ⅜" NPT
9002	Auto Drain Filter Sep. ¾" NPT
9005	Oil Removal Filter ⅜" NPT
9006	Oil Removal Filter ¾" NPT
9008	Pressure Reg. w/gauge ¼"NPT
9009	Pressure Reg. w/gauge ¾"NPT



Threaded Line Vac
Low-cost conveyor uses ordinary pipe! Convey parts, materials, waste - with no moving parts! A fast, low-cost way to convey plastic pellets, scrap trim, textiles, bulk solids, chips, paper, small parts, shavings, sawdust and granules. Our new Threaded Line Vac Air Operated Conveyors convert ordinary pipe into a powerful conveying system for parts, scrap, trim and other bulk materials. Threaded Line Vac attaches easily to plumbing pipe couplers, making it easy to build a complete system using ordinary pipe and fittings available from any home center, hardware store or plumbing supply. Performance is the same as our standard Line Vac.

Aluminum Threaded Line Vac Only

Model #	Description
140075	¾" Aluminum Line Vac Only
140100	1" Aluminum Line Vac Only
140125	1¼" Aluminum Line Vac Only
140150	1½" Aluminum Line Vac Only
140200	2" Aluminum Line Vac Only

Aluminum Threaded Line Vac KIT

Model #	Description
142075	¾" Aluminum Line Vac Kit
142100	1" Aluminum Line Vac Kit
142125	1¼" Aluminum Line Vac Kit
142150	1½" Aluminum Line Vac Kit
142200	2" Aluminum Line Vac Kit

Reversible Drum Vac

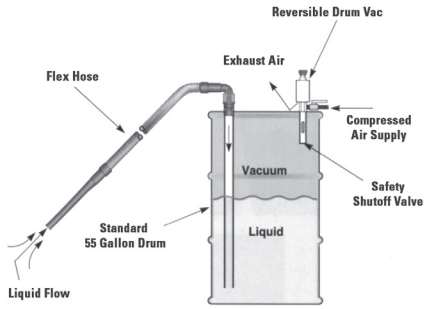
Pump 55 Gallons in 90 seconds!! Two-way Pumping Action!

What is the Drum Vac?

A safe, maintenance-free way to recover:

- Coolant
- Hydraulic oils
- Liquid spills
- Sludge and chips
- Tramp oil
- Waste water

REVERSIBLE DRUM VAC



Why the Reversible Drum Vac?

EXAIR's compressed air operated **Reversible Drum Vac System** attaches quickly to any closed head 30 or 55 gallon drum. Its high powered vacuum fills the drum in less than two minutes. With the simple turn of a knob, the same stainless steel pump quickly empties the drum. Coolant sumps can be easily refilled, floor spills vacuumed, or contaminated liquids transferred to filtration tanks in minutes. The flow rate in and out of the drum can be controlled with the knob, making it ideal for dispensing liquids.

Electrically operated "all purpose" vacuums aren't designed for use in industrial environments. As a result, motors wear out quickly and impellers clog. The Reversible Drum Vac does not use electricity and has no moving parts, assuring maintenance-free operation. An automatic safety shut-off valve prevents spills or overfilling.

The Model 6196 and 6196-30 Reversible Drum Vac System includes a vacuum hose and an aluminum wand

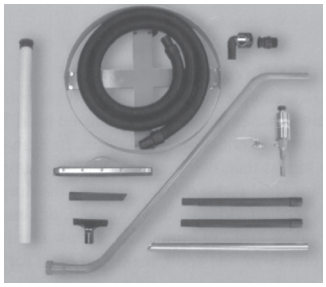
Applications

- Coolant sumps
- Food processing
- Lathes
- Floor cleanup
- EDM machines
- Pits
- Screw machines
- Machining centers
- Tanks

Advantages

- No moving parts
- Maintenance free
- Stainless steel construction
- Safe - no electricity
- Built-in pressure/vacuum relief
- Compact and portable
- Installs quickly
- Spill free - auto safety shutoff
- Fits standard closed head drum

5 Year Warranty!



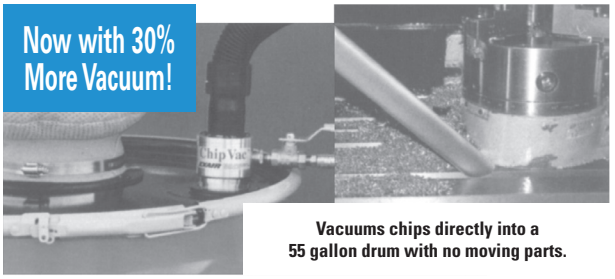
The Model 6296 Deluxe Reversible Drum Vac System includes a 55 gallon drum dolly, spill recovery kit, vacuum hose and all tools.

Warning:

Do not use with any material with a low flash point or with flammable liquids such as fuel oil, alcohol, mineral spirits,

Model #	Description
6196	**55 gallon Reversible Drum Vac System** - includes: two-way pump assembly (¼ NPT), shutoff valve, 10' (3m) flexible vacuum hose (1½"/38mm I.D.) with 90° quick-release elbow connection, (1) aluminum wand (drum not included).
6296	**55 gallon Deluxe Reversible Drum Vac System** - same as above and adds drum dolly, spill recovery kit, (2) extension wands, crevice tool, and skimmer tool (drum not included).
6196-30	**30 gallon Reversible Drum Vac System** - includes: two-way pump assembly (¼ NPT), shutoff valve, 10' (3m) flexible vacuum hose (1½"/38mm I.D.) with 90° quick-release elbow connection, (1) aluminum wand (drum not included).
9001	Auto Drain Filter Separator - ⅜ NPT, 65 SCFM (1841 SLPM)
9005	Oil Removal Filter - ⅜ NPT, 15–37 SCFM (425–1048 SLPM)
9041	55 gallon drum dolly
6901	Spill Recovery Kit - Includes a one-piece 54" (1372mm) ABS wand and a 14" (356mm) double blade squeegee tool.

Chip Vac™



Vacuums chips directly into a 55 gallon drum with no moving parts.

The Chip Vac removes abrasive stainless steel chips from a CNC.

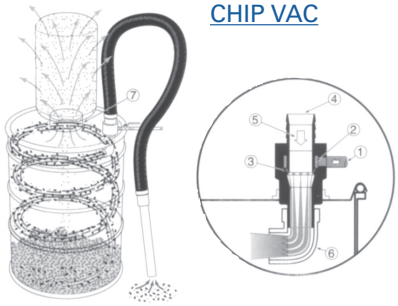
Room air remains dust-free as the Chip Vac removes dusty absorbent.

What is the Chip Vac? EXAIR's Chip Vac picks up dry or wet chips and delivers them directly to an ordinary 55 gallon drum. Chip Vac is used to clean chips from fixtures, floors and work surfaces of machining centers, lathes, saws, mills and other industrial equipment. **Why the Chip Vac?** The compressed air operated Chip Vac is an industrial duty vacuum designed specifically for vacuuming chips. It creates a powerful cyclonic action that vacuums metal, wood or plastic chips into a 55 gallon drum. Dusty materials such as absorbents are trapped by the 0.1 micron filter bag to keep the surrounding air clean. Electrically operated "all purpose" vacuums aren't designed for use in industrial environments. As a result, motors wear out quickly and impellers clog. Chip Vac has no moving parts to wear out or break which ensures long life. Sound level is half that of electric vacuums. Chip Vac's lever lock drum lid fits an ordinary open head 55 gallon drum. In less than a minute, the Chip Vac can be removed and easily placed onto another drum to keep different materials separate for recycling. Constant heavy lifting and dumping of vacuum cleaner tanks is eliminated since all chips are vacuumed directly to the 55 gallon drum.

Compressed air, normally 80–100 PSIG (5.5–6.9 BAR), flows through the inlet (1) into an annular plenum chamber (2). It is then injected into the throat through directed nozzles (3).

These jets of air create a vacuum at the intake (4) which draws material in and accelerates it through the unit (5). An elbow at the exhaust (6) directs the air in a cyclonic motion against the inside wall of the drum. Chips and other particulate drop to the bottom of the drum. The airflow exhausts through the port in the drum lid (7). Airborne particulates are trapped by the 0.1 micron filter bag.

CHIP VAC

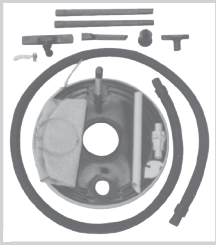


Applications

- CNC's
- Lathes
- Saws
- Mills
- Drills
- Grinders
- Routers
- Molding machines
- Absorbent pick-up

Advantages

- No moving parts
- Low cost
- No motors to clog or wear out
- No electricity
- Dust-free operation
- Chips go directly into a drum
- Powerful cyclonic action
- Includes accessories
- 50% quieter than electric vacs



The Chip Vac System can be used with an open-head steel, fiber or plastic drum that is in good condition (ANSI Standard #MH2-1997). To prevent material contamination, a poly drum liner can be inserted into the drum.

Easy cleaning - A dirty filter bag can put back pressure on the Chip Vac, resulting in reduced suction. The reusable bag should be removed and shaken over a waste container to remove bulk particulate. The filter bag can be washed in a manner suitable for delicate fabrics.

Pressure Supply		Air Consumption		
PSIG	BAR	SCFM	SLPM	INLET
80	5.5	40	1132	⅜ NPT

Air consumption has been minimized by using the appropriate amount of air required for vacuuming chips.

Part Number	Description
6193	Chip Vac System- includes Chip Vac, lever lock drum lid, shutoff valve, 10' chemical resistant hose (1.5"/38mm I.D.), chip wand, extensions, crevice tool, brush, skimmer tool and floor tool (drum not included)
9001	Auto Drain Filter Separator - ⅜"NPT, 73 SCFM (2067 SLPM)
9005	Oil Removal Filter - ⅜"NPT, 37 SCFM (1048 SLPM)
6804	Filter Bag

Improve the quality of molded parts by preventing contamination of in-process material. Provide easy access and the ability to make quick visual level checks. Reduce mess and housekeeping labor associated with transferring of material from central loaders and grinders.

DN22

Drum Filter Cover - 1 port

Fits 22″ diameter drum. The access port accepts a 2″ to 2.75″ diameter vacuum wand. The port features an elastic band for a tight seal and a zipper to close the opening when not in use. Includes tie cord to ensure snug
fit and clear vinyl window for quick visual level check.

DP22

Drum Filter Cover - 2 port

Same as above except two ports are

Gaylord Filter Cover - 2 port

GN3442

Fits 34″ × 42″ Gaylord. The cover features two access ports sized to accept a 2″ to 2.75″ diameter vacuum wand. They are located in opposite corners of the cover so that operators can reposition the vacuum wand as material shifts in the gaylord. The ports include an elastic band for a tight seal and a zipper to close one or both openings when not in use. An elastic band around the skirt holds the cover in place.

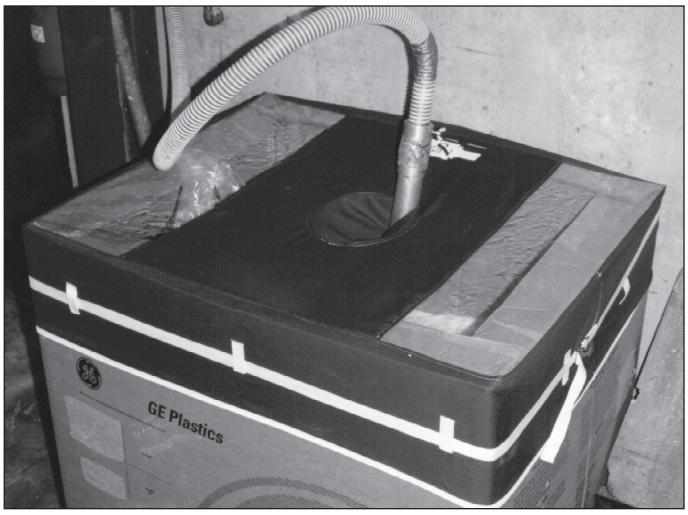
Gaylord Filter Cover - 1 port with belt & buckle

GP3442

Same as above except comes standard with a single port located in the center of the cover and a belt with buckle to more securely hold the cover in place. Port size is specified by the customer within a range of 2″ to 20″ diameter. Designed to reduce the mess associated with pneumatic loading of material into gaylords. Specify length and diameter of port when ordering.

Special order - allow one week.

DRUM COVERS



Optional Features Include:

- Custom shapes and sizes available (send DME a drawing with sizes needed for quote)
- Additional zipper openings
- Fabric color selections
- Custom silk screen names or logos
- Call for quote

Mold Curtains

Mold side curtains provide an effective means of confining molded parts on multi-cavity molds that have a tendency to fly out, thus reducing the risk of contamination, loss or damage.

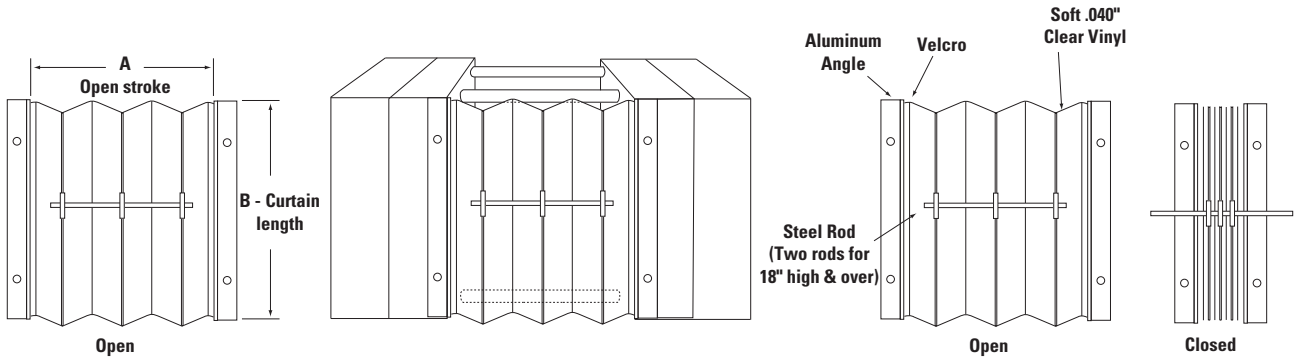
- Sizes not shown custom made to your dimensions.
- Velcro fitting permits easy access to mold cavities.
- Clear vinyl aids visibility to mold.

ELECTRONIC QUOTE REQUEST FORM

or visit
www.dme.net/rfq

Complete unit includes:
(2) 1 1/2″ × 1 1/2″ aluminum angle mounting brackets attached with bolts to mold and velcro to curtain.
(1) 1/4″ steel alignment rod to prevent curtain from collapsing into mold.

MOLD CURTAINS



Width A	Length B	Part No.
4″	12″	**SC01**
6″	15″	**SC02**
8″	18″	**SC03**
10″	21″	**SC04**
12″	24″	**SC05**
14″	27″	**SC06**
16″	30″	**SC07**
18″	33″	**SC08**
20″	36″	**SC09**

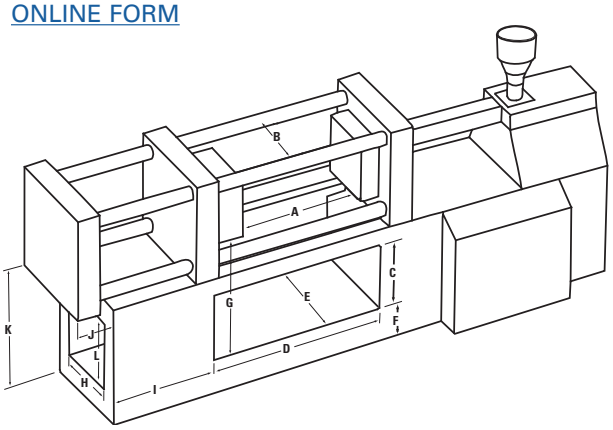
Note: Side curtains require 3″ gap between mold and tie bar. The curtain can only be as long as the tie bar spacing if adequate space does not exist.

Alternate vertical panels are clear vinyl to provide visibility to the mold. Aluminum angle mounting brackets are designed
to attach directly to the mold, not to the platen.

Ensure adequate clearance between waterline fittings on the parting line, to allow the curtain to collapse in between when the mold is closed. Curtain open stroke and curtain length

ONLINE FORM

A: Mold open..... _____
E: Width of opening..... _____
C: Height of opening..... _____
D: Length of opening..... _____
F: Floor to opening..... _____
I: End to opening..... _____
L: Height of end opening..... _____
H: Width of opening..... _____

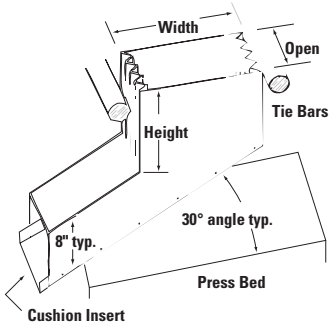


Prevents Contamination & Lost or Damaged Parts

Attach to mold on side or bottom

Complete with mounting brackets, bars, grub & screws

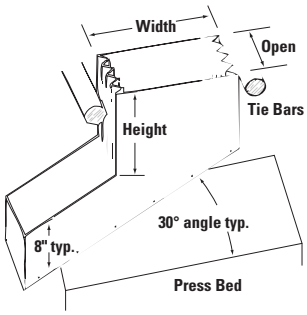
Detachable chute guideskirt with cushion insert



Specifically designed to transfer molded parts by gravity from under the machine to a conveyor or container. Soft insert included to minimize part damage and bounce

Open	Width	Height	Chute Length	Chute Width	Part No.
6″	12″	8″	24″	8″	**MD06**
12″	18″	10″	30″	8″	**MD16**
18″	22″	12″	34″	8″	**MD26**
18″	26″	14″	38″	8″	**MD36**
18″	30″	16″	42″	8″	**MD46**

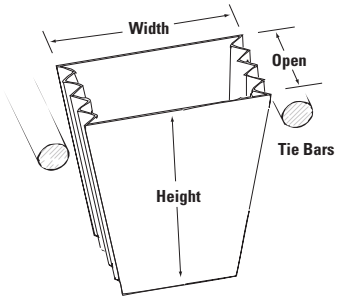
Soft chute guideskirt



Made of soft, pliable abrasion-resistant material to protect delicate parts from surface damage. Typical applications are conical- or spherical-shaped small parts below 200°F.

Open	Width	Height	Part No.
6″	12″	8″	**SCG07**
12″	18″	10″	**SCG17**
18″	22″	12″	**SCG27**
18″	26″	14″	**SCG37**
18″	30″	16″	**SCG47**

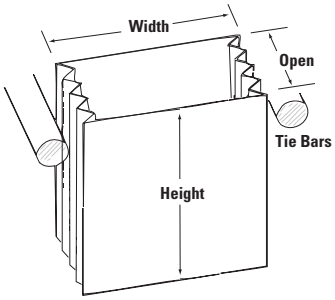
Standard tapered guideskirt



Design allows parts to funnel or align below mold for ease of packaging or secondary processing. Fabric can be easily cut to permit front, rear, side or bottom release in conjunction with a conveyor.

Open	Width	Height	Part No.
6″	12″	18″	**MTP01**
12″	18″	18″	**MTP11**
18″	22″	26″	**MTP21**
18″	26″	26″	**MTP31**
18″	30″	26″	**MTP41**

Standard straight guideskirt



Ideal for guiding large parts or runners from the mold to a receiving source directly below the mold. Multiple units can be used to guide parts and runners to desired location.

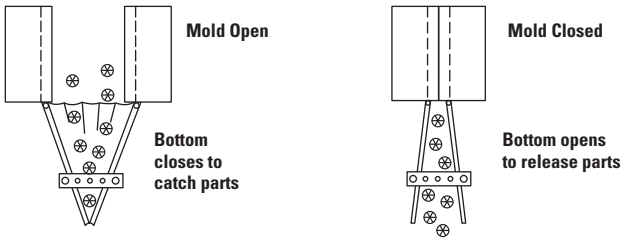
Open	Width	Height	Part No.
6″	12″	18″	**MST02**
12″	18″	18″	**MST12**
18″	22″	26″	**MST22**
18″	26″	26″	**MST32**
18″	30″	26″	**MST42**

Options:

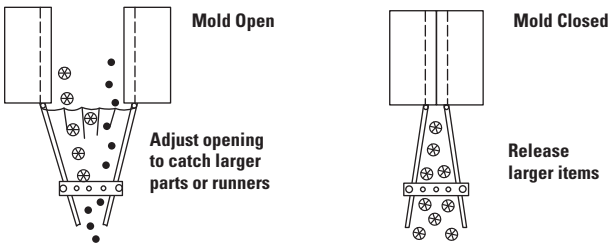
1. Hi-temp materials for thermoset parts.
   Neoprene material is used for hot parts up to 300°F. Note that thermoplastic parts that are cooled before ejection from mold do not normally require hi-temp material.
2. Metal sideplates provide rigidity and extended life to guideskirts.
3. Magnets - set of 4 (part no. MAG01).

Mold Skirts

Soft Drop Application

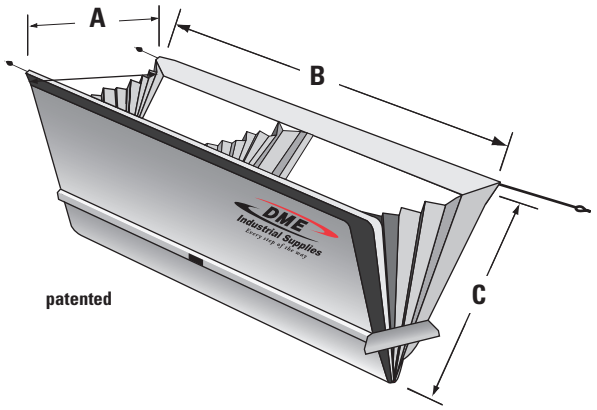


Part/Runner Separation



Protects delicate molded parts

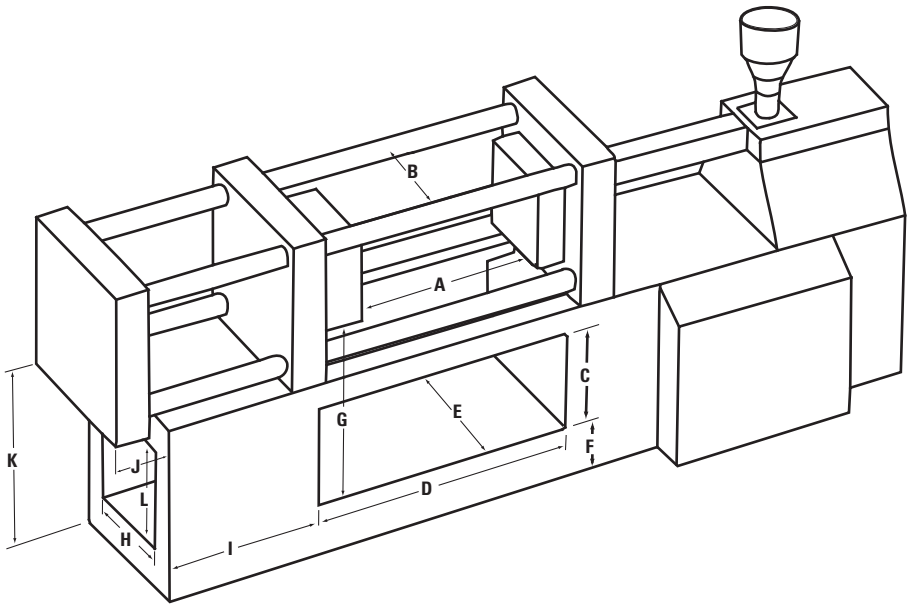
Delayed drop guideskirts provide a soft, delayed, controlled drop of molded parts - prevents damage and increases output of delicate molded parts.



patented

Call For Pricing!

Please provide all required dimensional details for a rapid quotation for your machine.



ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq

A: Mold open..... _____ F: Floor to opening..... _____

E: Width of opening..... _____ I: End to opening..... _____

C: Height of opening..... _____ L: Height of end opening..... _____

D: Length of opening..... _____ H: Width of opening..... _____

See the following pages for quote request forms.

Detachable Guideskirt

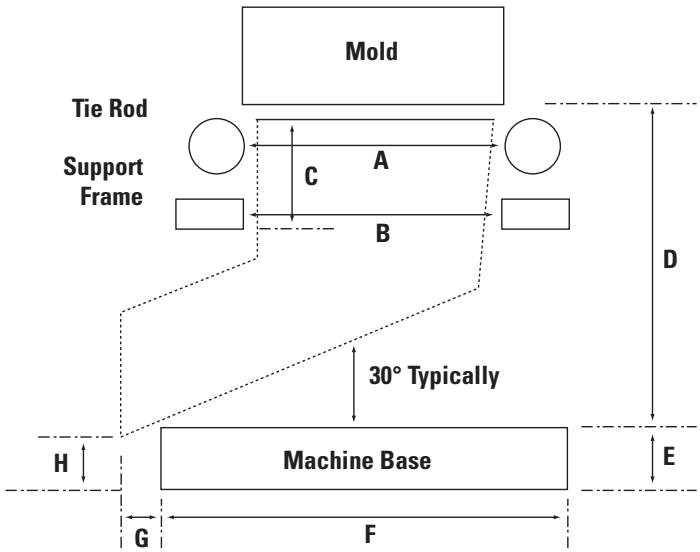
Quote Request Form

Company Name:	
Account Number:	
Contact Person:	
Address:	
City, State, Zip:	
Phone, Fax:	
Email:	

Please fax this completed form to:
248-544-5113 or 888-808-4363
or email
sales@dme.net

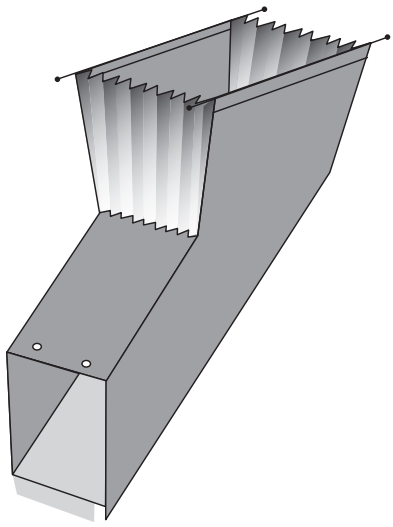
A

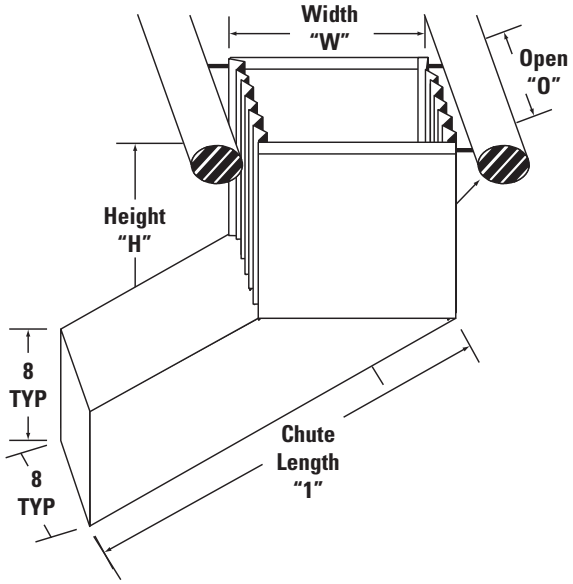
1. Mold Opening (daylight): (MAX is 24")
2. (A) Width between Tie Rods:
3. (B) Width between Frame:
4. (C) Clearance Height:
5. (D) Machine Clearance mold to base:
6. (E) Base to floor:
7. (F) Width of base:
8. (G) Desired extension past base:
9. (H) Desired discharge height:
10. Size of Parts: L x W x H
11. Runner system ☐ No ☐ Yes
12. Size:
13. Do you require high-temp material? (for parts over 180°) ☐ No ☐ Yes
14. Quantity



ALL dimension must be completed in order to receive a quotation

ELECTRONIC QUOTE REQUEST FORM
or visit
www.dme.net/rfq





Detachable Guideskirt has a Stainless Steel tray on the bottom of the chute with a cushion insert

All guideskirts come with mounting hardware. Hardware includes straight brackets (for attaching to the mold) and right angle brackets (for mounting below the mold)

Soft Chute Guideskirt

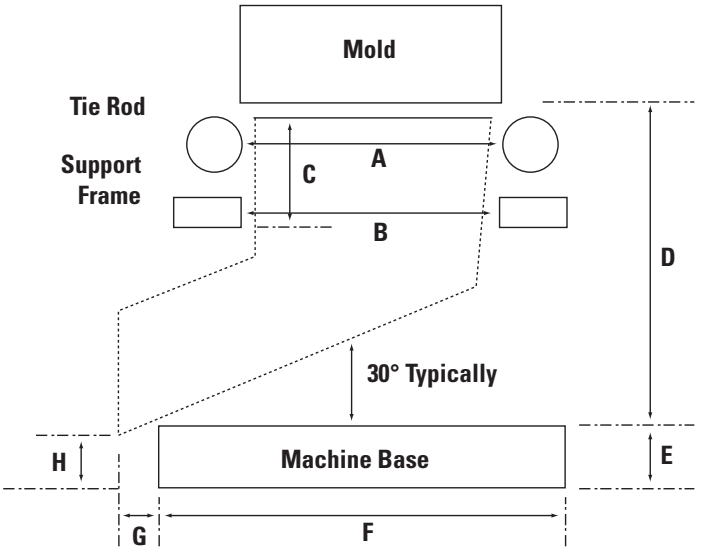
Quote Request Form

ONLINE FORM

Company Name:	
Account Number:	
Contact Person:	
Address:	
City, State, Zip:	
Phone, Fax:	
Email:	

Please fax this completed form to:
248-544-5113 or 888-808-4363
or email
sales@dme.net

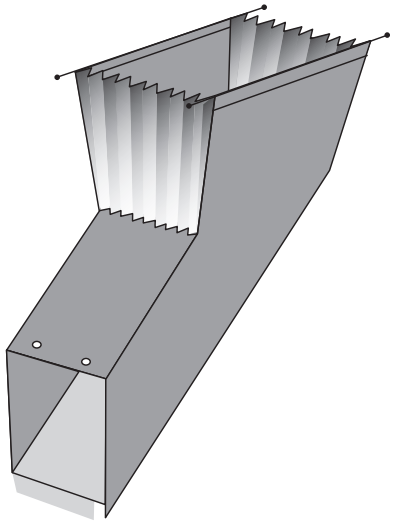
1. Mold Opening (daylight): (MAX is 24")
2. (A) Width between Tie Rods:
3. (B) Width between Frame:
4. (C) Clearance Height:
5. (D) Machine Clearance mold to base:
6. (E) Base to floor:
7. (F) Width of base:
8. (G) Desired extension past base:
9. (H) Desired discharge height:
10. Size of Parts: L x W x H
11. Runner system ☐ No ☐ Yes
12. Size:
13. Do you require high-temp material? (for parts over 180°) ☐ No ☐ Yes
14. Quantity

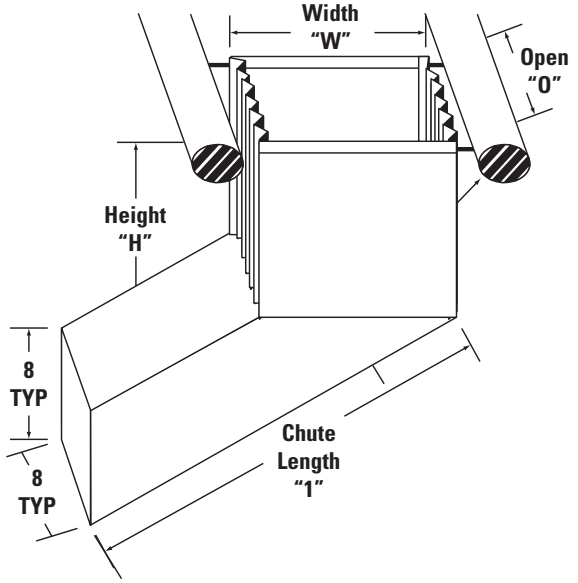


ALL dimension must be completed in order to receive a quotation

ELECTRONIC QUOTE REQUEST FORM

or visit
www.dme.net/rfq

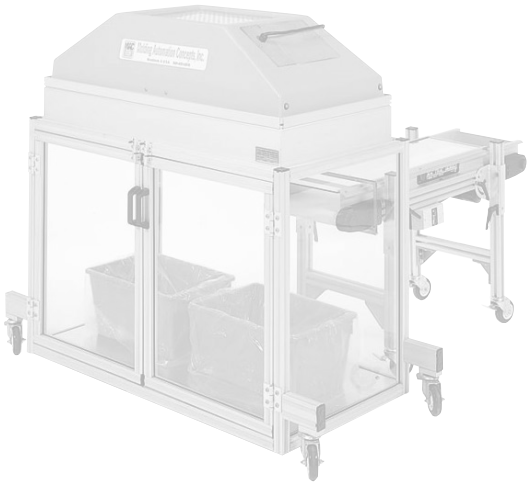




Detachable Guideskirt has a Stainless Steel tray on the bottom of the chute with a cushion insert

All guideskirts come with mounting hardware. Hardware includes straight brackets (for attaching to the mold) and right angle brackets (for mounting below the mold)

A



MAC-controlled environment enclosures maximize efficiency of cleanroom molding for a fraction of the cost of a cleanroom facility. They can enable a molder to quickly and inexpensively enter the growing medical molding market, add to existing cleanroom capacity, or further enhance contamination control by isolating parts within an existing cleanroom.

MAC offers three types of cleanroom enclosures including: Under the Press, Beside the Press and Over the Press designs.

Framework for portable enclosures are fabricated of 2" square 12-gauge structural steel unless otherwise specified. Aluminum or stainless steel are available as options. Smaller enclosures are welded together as a complete unit while larger enclosures may be fabricated as modular units. Choice of sidewall materials include vinyl strip curtains or polycarbonate panels.

CLEANROOMS ARE NO LONGER AVAILABLE

Options

- Antistatic material for sidewalls
- Air conditioning control
- Humidity control
- Built-in conveyors or worktables
- Automatic bag or tote fill systems

Features

- HEPA fan module with pre-filter
- Low Profile 2′ × 4′ self-contained blower/filter
- ¼" H.P. motor, 115 volts
- Nominal air flow 800 CFM
- Minimum efficiency of 99.99% at 0.3 microns
- Low-energy consumption
- 2.4 amps full load
- Sound level to 58 dba
- Red neon light to verify unit is operating
- Heavy-duty locking casters

Framework

The framework is fabricated of proprietary aluminum extrusions finished with white epoxy enamel. The cross tees for separating components are 1-1/2" anodized aluminum T-grid with tabs for attachment. The horizontal members are 2" × 4", and the vertical support legs are 3" × 3". All fasteners may be easily removed to allow disassembly of the unit for relocation. Leveling mounts are installed at the base of each leg and are adjustable. The pads have a stainless steel housing with rubber base where it contacts the floor. A ½ - 13 stud on the pad fits inside the base of the leg and a hex nut is used for adjustment. A jamb nut is included to fix the height once set. Closed cell gasketing is included for field installation to seal the components from the room.

Hard Panel Walls

Blank panels are ½" gypsum, vinyl covered on both sides with white textured covering. All edges are sealed. If required, special sizes will be cut and edges resealed at our factory. No field cuts are necessary.

Casters

There are 2 types of casters offered. Stem casters are available in 4" and the Plate Casters are available in 5" and 6". The size of your casters will be determined by the size and weight of your softwall cleanroom. All casters feature a molded polyurethane wheel and a Total Tech Lock brake.

CLEANROOMS ARE NO LONGER AVAILABLE

Filter Modules

Filtration is provided by our Model 421-SP motorized HEPA filter modules. Standard efficiency is 99.99% at 0.3 microns by DOP test. The modules are provided with an 8' power cord and variable-speed controller mounted on each unit. If a pre-wiring package is purchased, the speed controllers are located in a control panel attached to the leg. Standard voltage is 120/1/60.

Light Fixtures

Light is provided by our 2' × 4' TAP fixture with F40-T12 medium bi-pin lamps. Lamp tubes ARE included and are shipped installed in the fixtures. The lens is standard clear prismatic housed in an extruded aluminum frame. Wiring connection is made through an access cover in the top of the fixture. Standard voltage is 120/1/60.

Pre-wiring Package Option

The pre-wiring package includes a control panel housing, the fusing for each filter module and each light fixture circuit, and speed controllers for the HEPA filter modules. Filter modules are wired to speed controllers in multiples of (3); i.e. one speed controller operates (3) filter units. Power distribution block for single-point connection to field power. Wiring harnesses are provided for components to connect them to the control panel. Harnesses are marked for re-assembly.

Warranty

MAC automation warrants its products for a period of one year from the date of shipment. The warranty covers materials and workmanship of all components of our soft-wall cleanrooms. If an item proves defective during the warranty period it will be repaired or replaced at our option. Under no circumstances will we be responsible for any labor costs for removal or repair unless approved in writing prior to the work being performed. These costs will be approved solely at our option depending on the circumstances. We will also not be responsible for any costs related to the failure of one of our products.

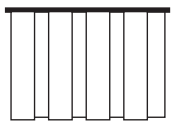
Please fill out this contact information page and select your cleanroom specifications on the following three pages. Fax to DME at 888-808-4363 for a quote. Or call us at 800-626-6653 with your specs.

Company Name	
Account Number	
Company Address	
Contact Name	
Phone #	
Fax #	
E-mail Address	

CLEANROOMS ARE NO LONGER AVAILABLE

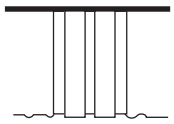
SOFTWALL CLEANROOM OPTIONS

Anti-static Curtains
Replaces standard clear vinyl with static dissipative vinyl.

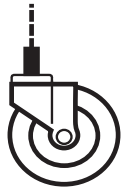


Strip Curtains
Replaces all, or a portion, of standard solid panels with 8" wide strips with 2" overlap.

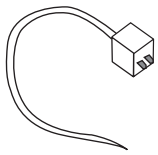
ELECTRONIC QUOTE REQUEST FORM
or visit
www.dme.net/rfq



Strip Entries
Replaces standard 12" overlap opening with strip curtains. These are generally 3' – 4' wide, but any width is available.



Casters
Replaces standard stainless steel leveling mounts with polyurethane swivel casters with wheel locks. Wheel diameter varies with size of room and load.



Pre-Wiring Package
Adds leg-mounted control panel with on/off switches for lights and filters, and moves the filter speed controls down from the ceiling for easier access. All components are pre-wired to connect to the control panel, which provides a single-point connection to field power.

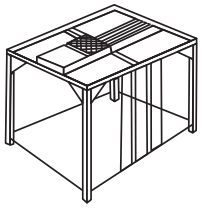
Cleanrooms - Worksheet

CLEANROOM SIZE

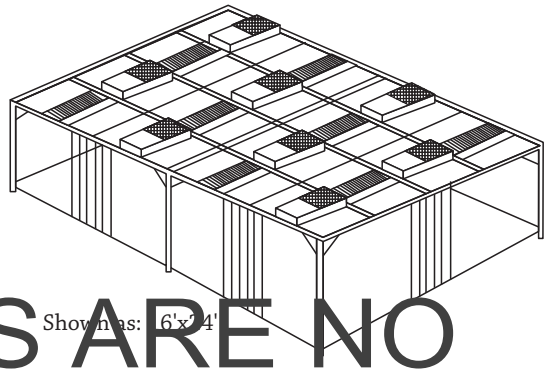
Length:

Width:

Height:



Shown as: 6'x8'



Shown as: 16'x24'

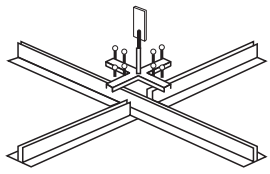
CLEANROOMS ARE NO LONGER AVAILABLE

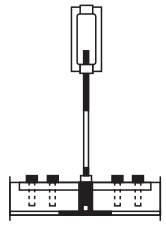
CLEANROOM CLASS

Class = Number of air changes per hour.

☐ 100 ☐100 (At Rest) ☐1,000 ☐ 10,000 ☐ 100,000 (Standard)

CLEANROOM FRAMEWORK

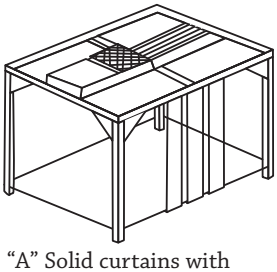




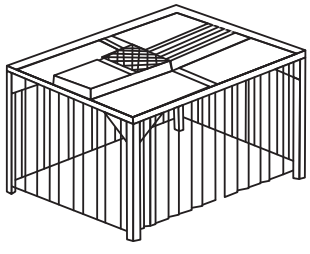
The framework is fabricated of proprietary aluminum extrusions finished with white epoxy enamel. The cross tees for separating components are 1-1/2" anodized aluminum T-grid with tabs for attachment. The horizontal members are 2" × 4", and the vertical support legs are 3" × 3". All fasteners may be easily removed to allow disassembly of the unit for relocation. Leveling mounts are installed at the base of each leg and are adjustable. The pads have a stainless steel housing with rubber base where it contacts the floor. A ½–13 stud on the pad fits inside the base of the leg and a hex nut is used for adjustment. A jamb nut is included to fix the height once set. Closed cell gasketing is included for field installation to seal the components from the room.

CLEANROOM CURTAINS

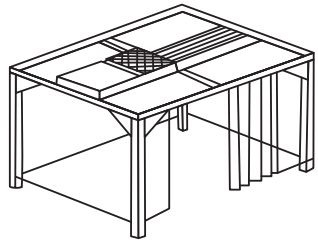
Curtains are 40 mil clear standard. (2) 12" overlap openings are included with the base package. Strip entries are available as are sliding track entries. For additional curtain material, call for pricing.



"A" Solid curtains with strip entry



"B" 8" Strip curtains with 2" overlap



"C" 8" Solid curtains with bi-fold curtains entry

❑ "A" ❑ "B" ❑ "C" ❑ "D" - Please have the factory suggest best curtain method

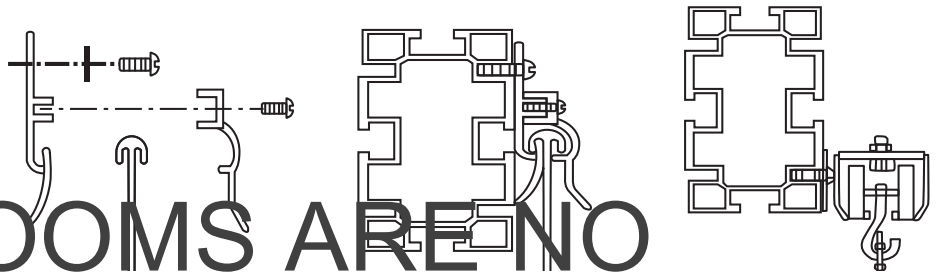
Please make the above curtains: ❑ 40 mil clear vinyl ❑ 40 mil clear anti-static Length:

Fax to DME at 888-808-4363 for a quote. Or call us at 800-626-6653 with your specs.

CLEANROOM CURTAIN ASSEMBLIES

HookBead Curtains: Used for strip curtains or strip entry.

Nylon Roller: Used for bi-fold curtains

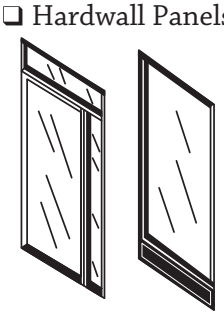


CLEANROOMS ARE NO LONGER AVAILABLE

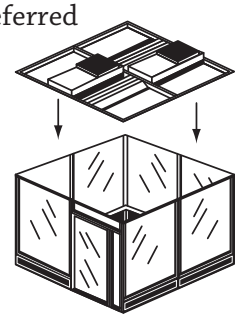
CLEANROOM HARDWALL PANELS

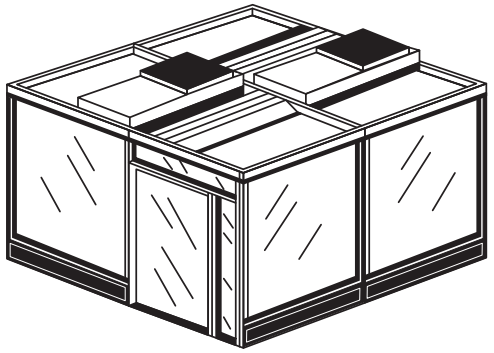
Blank panels are ½" gypsum, vinyl covered on both sides with white textured covering. All edges are sealed. If required, special sizes will be cut and edges resealed at our factory. No field cuts are necessary.

❑ Hardwall Panels are preferred



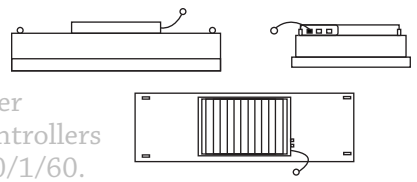
Door & Wall Panel





CLEANROOM FILTER MODULES

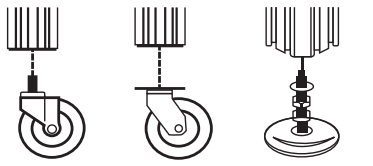
Filtration is provided by our Model 421-SP motorized HEPA filter modules. Standard efficiency is 99.99% at 0.3 microns by DOP test. The modules are provided with an 8' power cord and variable-speed controller mounted on each unit. If a prewiring package is purchased, the speed controllers are located in a control panel attached to the leg. Standard voltage is 120/1/60.



CLEAN ROOM CASTERS

There are 2 types of casters offered. Stem Casters are available in 4" and Plate Casters are available
in 5" and 6". The size of your casters will be determined by the size and weight of your softwall cleanroom. All casters feature a molded polyurethane wheel and a Tech-Lock brake.

❑ Stem/Plate Casters ❑ Leveling Pad



Stem Caster | Plate Caster | Pitch Leveling

Cleanrooms - Worksheet

ONLINE FORM

CLEAN ROOM LIGHT FIXTURES

Light is provided by our 2" by 4" TAP fixture with F40-T12 medium bi-pin lamps. Lamp tubes ARE included and are shipped installed in the fixtures. The lens is standard clear prismatic housed in an extruded aluminum frame. Wiring connections are made through an access cover in the top of the fixture. Standard voltage is 120/1/60.

CLEANROOM PRE-WIRING PACKAGE OPTION

The pre-wiring package option includes a control panel that houses the following:

1. Fusing for each filter module, and for each light fixture circuit.
2. Speed controllers for the HEPA filter modules.
3. Filter modules wired to speed controllers in multiples of (3). i.e one speed controller operates (3) filter units.
4. Power distribution blocks for single point connection to field power.

CLEANROOMS ARE NO LONGER AVAILABLE

Wiring harnesses are provided for components to connect them to the control panel.
Harnesses are marked for reassembly.

☐ Please include the pre-Wiring Package

CLEANROOM WARRENTY

MAC automation products have a one-year warrenty from date of shipment. The warrenty covers materials and workmanship of all softwall cleanroom components. If an item proves defective during the warrenty period we will either repair or replace it at our option.
Under no circumstances will we be responsible for any labor costs for removal or repair unless approved in writing prior to the work being performed. These costs will be approved solelt at our option depending on the circumstance. We also will not be responsible for any costs related to the failure of one of our products.

ADDITIONAL COMMENTS

Please detail your requirements below. Feel free to add as many additional pages as necessary.

CLEANROOMS ARE NO LONGER AVAILABLE

Flat Belt Conveyors

FLAT BELT CONVEYORS

Unique Features:

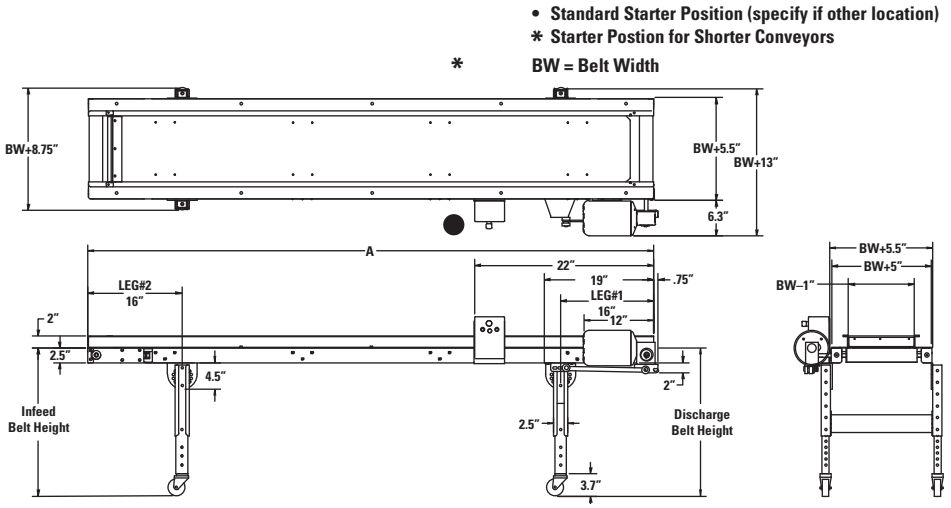
- Three-year, limited warranty
- Direct drive, 1/4 HP, 90V DC variable-speed drive package
- Standard speeds 20, 40, 60 FPM (specify)
- NO ROLLER CHAIN OR SPROCKETS
- SEALED GEAR REDUCER
- 8 different motor locations (specify)
- 1/8" anodized aluminum sheet
- Double V-guided, 3'–30' length, FDA approved, white PVC belt
- Standard leg sets and swivel castors (shown)
- Units up to 10' length are shipped fully assembled
- Control wiring contained in liquid-tight conduit and connectors

How to Order:

ATL 12 -10 -20

- Conveyor Model
- Belt width in Inches
  - 4"
  - 6"
  - 9"
  - 12"
  - 18"
  - 24"
- Belt Speed
  - 20 fpm
  - 40 fpm
  - 60 fpm
- Conveyor Length
  - 3' to 20'

Specify the conveyor infeed belt height and the discharge belt height.



How to Order:

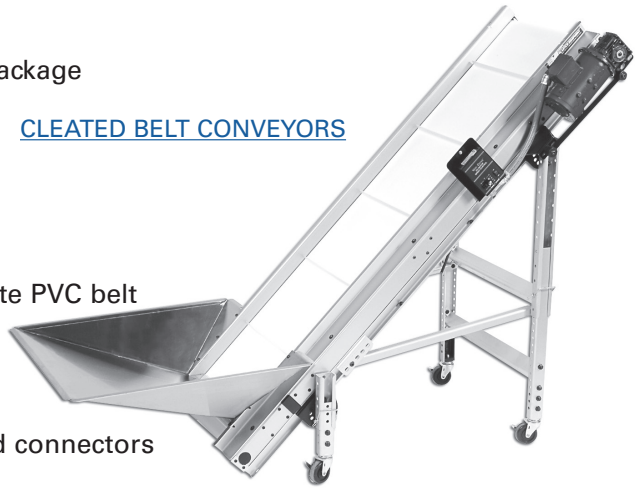
1. Determine the belt width needed.
2. Determine the conveyor length needed (in feet); this is the "A" dimension.
   * "A" is available in 3' thru 20' lengths.
3. Select the conveyor infeed belt height and the discharge belt height needed.

Please complete special order form on page 71.

Unique Features:

- Three-year, limited warranty
- Direct drive, 1/4 HP, 90V DC, variable-speed drive package
- Standard speeds 20, 40, 60 FPM (specify)
- NO ROLLER CHAIN OR SPROCKETS
- SEALED GEAR REDUCER
- 8 different motor locations (specify)
- 1/8" anodized aluminum sheet
- Double V-guided, 3'–30' length, FDA approved, white PVC belt
- 1–1/2" high cleats on 18" centers
- Standard leg sets and swivel castors (shown)
- Units up to 10' length are shipped fully assembled
- Control wiring contained in liquid-tight conduit and connectors

CLEATED BELT CONVEYORS



How to Order:

ATLC 12 - 10 - 20

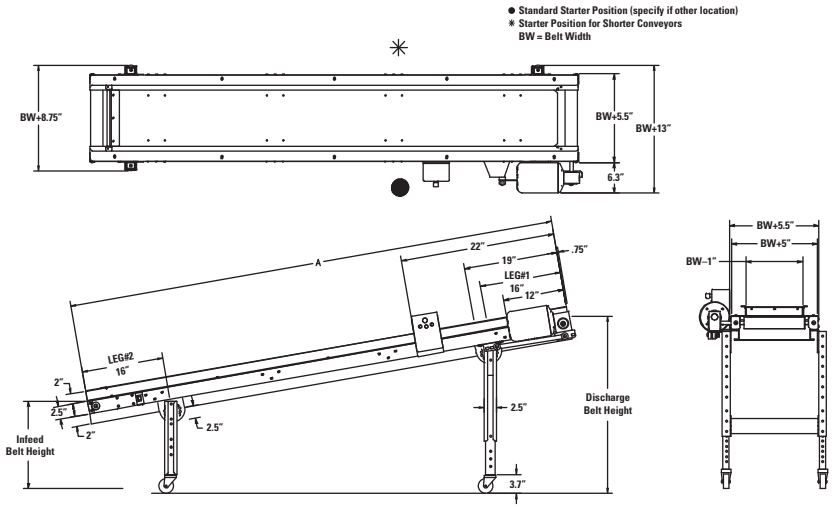
- ATLC — Conveyor Model
- 12 — Belt width in Inches: 4", 6", 9", 12", 18", 24"
- 10 — Belt Speed: 20 fpm, 40 fpm, 60 fpm
- 20 — Conveyor Length: 3' to 20'

How to Order:

1. Determine the belt width needed.
2. Determine the conveyor length needed (in feet); this is the "A" dimension.
   * "A" is available in 3' thru 14' lengths.
3. Select the conveyor infeed belt height and the discharge belt height you need.

Please complete special order form on page 71.

Specify the conveyor infeed belt height and the discharge belt height.



Adjustable Belt Conveyors

Unique Features:

- Three-year, limited warranty
- Direct drive, 1/4 HP, 90V DC, variable-speed drive package
- Standard speeds 20, 40, 60 FPM (specify)
- NO ROLLER CHAIN OR SPROCKETS
- SEALED GEAR REDUCER
- 8 different motor locations (specify)
- 1/8" anodized aluminum sheet
- Double V-guided, 3'–30' length, FDA approved, white PVC belt
- 1–1/2" high cleats on 18" centers
- Standard leg sets and swivel castors (shown)
- Units up to 10' length are shipped fully assembled
- Control wiring contained in liquid-tight conduit and connectors
- Adjustable angle incline 20–45 degree (specify)
- 2' minimum infeed length, 2' minimum discharge length
- Drive located on infeed for 24" wide models

ADJUSTABLE BELT CONVEYORS

How to Order:

1. Determine the belt width you need
2. Select either the 3' × 4' or 4' × 5' Model
3. Select the conveyor infeed belt height you want
4. The correct leg sets will be supplied with locking casters

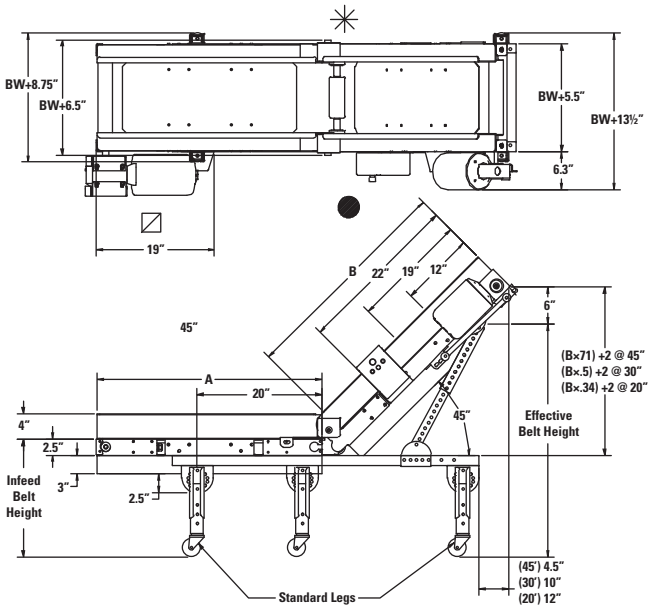
Please complete special order form on page 71.

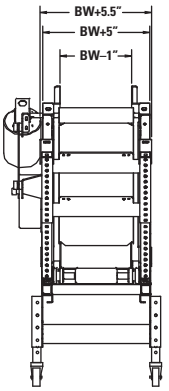
How to Order:

ATLK 12 - 10 - 5 - 20

- Conveyor Model
- Belt width in Inches
  - 6"
  - 9"
  - 12"
  - 18"
  - 24"
- "B" Dimension (min. length 2 feet)
- "A" Dimension (min. length 2 feet)
  - A and B cannot exceed 15 feet
- Belt Speed
  - 20 fpm
  - 40 fpm
  - 60 fpm

Specify the conveyor infeed belt height and the discharge belt height.





Note: A & B dimensions are in 1' Increments
Drive location for 24" models is on Infeed End
Drive location for 6", 9", 12", & 18" models in on Discharge
9" min. Infeed Belt height with standard Legs & Castors
● Standard Starter position (specify if other location)
✳ Starter position for Shorter Conveyors
BW = Belt Width
☒ Drive will be mounted on the Infeed for 24" and 30" wide models

Conveyor Specifications Form

ONLINE FORM

Company:		Name:	
Address:		Phone:	
City:		Fax:	
State:		Email:	
Zip:		Account Number:	

A

A. Describe Basic Application:

What are you conveying: _____

Dimensions: _____ L × W × H

Cavitation: _____

Cycle time: _____

Runner/Sprue: _____ subgated?

_____ dimensions

What are you conveying from: _____ (and what is its height)

What are you conveying to: _____ (and what is its height)

ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq

B. Specialty Applications:

(Cooling Conveyors, air/water; Parts Diverters; Box Filling, Cycle Count, Weight Scale; Robotic Conveyors; Part/Runner Separation; etc.)

C. Basic Conveyor Information:

Model: _____

Belt Width: _____

Length/Length "A": _____

Length "B": _____ (for 2 plane conveyors)

Angle: _____ (for fixed angle conveyors)

Max. Belt Speed _____ (20, 40, 80 FPM; other)

D. Conveyor Height:

Infeed Belt Height: _____

Discharge Belt Height: _____

Castors: _____

E. Side Rails: _____

Rail Height: _____ 2", 4", 8", 12"; other

Construction: _____ painted, stainless

Angle: _____ 90°, 60°, 45° ; other

Extension Rails? _____ height, angle, length, location clamp-on, bolt-on

Belt Lining: _____

Belt Wipe/Brushes: _____

Other: _____

F. Parts Containment & Handling:

Infeed Hopper: _____ (size/stainless, carbon)

_____ max ht., floor to top of hopper

Soft Drop Zone: _____ start pt. from infeed & length

Discharge Chute: _____ stainless, carbon/mylar, PTFE

Parts Diverters _____ specify type

Other:

Conveyor Specifications Form

G. Electrical:

Variable Speed: _____ no, yes/desired speed range

Motor Voltage: _____

Alternate HP: _____

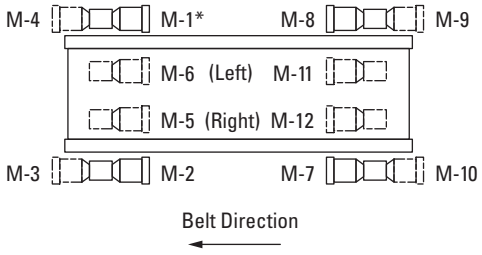
Magnetic Starter: _____ (manual is std.)

Controls Location: _____ locate using motor M-? position

Motor Location: _____ standard, alternate

H. Motor Locations:

All Direct Drive Conveyors: M-1-M-4 and M-7-M-10 locations.
Note: Under frame motor positions require chain/sprocket-style drive (for an additional cost).



I. Robotic/Indexing:

S-44 Indexing: _____

Relay Voltage: _____

DC Variable Speed: _____

Manual Override: _____ to clear belt

Override Lockout: _____ robot lockout of over-ride

Foot Pedal Switch: _____ for override

Photoeye: _____ in drop zone to initiate indexing

Reversing: _____ upon bad part signal

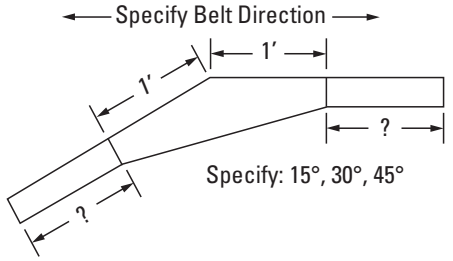
Part Relay Station: _____ (infeed height)

_____ (discharge height)

J. Nose-Over:

Conveyor Style: _____ two plane, flat or cleated belt

Angle:



K. Belting:

Alternate Cleat Height: _____ ½", 1", 1½, 2", 3", other

Alt. Cleat Centers: _____

Cleat Indent: _____ (per side)

Other: _____ water, hi-temp, PTFE, etc.

Alt. Color: _____ white, black

L. Other:

Specifying and Designing EOAT for Robots

The success of any robotics parts movement depends on how consistently the End-of-Arm Tooling (EOAT) grips, holds, moves and releases parts. Proper EOAT design and fabrication is very important to future cost savings and efficiencies. The following DME Industrial Supplies catalog pages of SAS Automation components will satisfy your EOAT requirements.

Here are some key questions to ask to determine what type of EOAT is best for your application. The answers to these questions will determine which types of components you'll need: gripper fingers, gripper plates, vacuum cups, actuated vacuum cups, pliers and/or sprue cutters to assemble your EOAT.

Part information: What is the size, weight and shape of your part? Does it have restricted surfaces that may not be contacted or touched before a clear or colored top coat is applied in a secondary operation, e.g. a Class A finish?

For injection molders: How big is your mold? How much space is there between the mold halves when it opens? Will the EOAT fit between the tie bars? Where is the center of the mold? What is the location of ejector pins and plates? How many cavities in the mold? What is the cycle time? What is the temperature of the ejected plastic part? Where are the sprues?

The EOAT should fit within the space limitation of the mold and/or the robot's drop-off location. It should line up with the centerline of the mold and the EOAT frame should be as large as the part for maximum adjustability of the gripper components.

Robot: What is the load capacity and arm size of your robot? Does it have connections for pneumatics and part sensing or controls? What are the mechanical interface requirements, such as mounting hole sizes and locations? Do you need EOAT/robot quick-change? Will the robot move the part or will the EOAT need to move or turn the part? Where will the part be placed?

What to Look For in an EOAT

Frame/Modular components: The EOAT frame should accommodate various types of grippers and clamps and be adjustable itself. The frame must be rigid, yet strong for repeatability.

Durability: The EOAT should be long-lasting and strong, yet lightweight. Make sure the vacuum cup material (e.g., polyurethane) is durable and able to withstand the high temperatures of just-molded parts (>200F) and the grippers are a good quality to ensure long life.

Lightweight: The weight of the EOAT, combined with the part, should not exceed your robot's weight capacity. Choose an EOAT that is as light as possible, yet with the necessary rigidity. Remember that less weight also reduces robot wear and maintenance.

Low profile, compact design: The modular parts and components, when assembled, need to fit into or around tight areas in the mold or work cell area.

Flexibility: Look for tooling components that are fully adjustable for 'onsite' fine-tuning and possible modifications. This helps reduce future tooling modification costs.

Quick changeability: This feature is built-in to easily adjust the tool and make quick EOAT changes. A quick-change chuck permanently attached to the robot allows the EOAT to be affixed to a dovetail that slides in and out of the chuck. All air connections are made to the chuck via quick-touch connectors (no hand tools are required). This also enables precision repeatability when installing tools and provides standardization with the plant.

Five Steps to Design and Build an EOAT

An EOAT is designed and built based on the available part surfaces and the available working area.

Step 1 — First a frame is constructed on a dovetail mounting plate (to slide into quick-change chucks, if required) to the size of the part. Slotted profiles which are grooved along the entire profile length provide the best solution for lightweight rigidity and flexibility.

Step 2 — Next, an EOAT is built with the necessary clamps, arms and gripping devices. Vacuum cups can be used as suction devices on a part surface. Pliers usually grab the part or sprue, and fingers are used to secure a part. These components should be adjustable within the profile framework. Vacuum cups are the most cost-effective and common method to grab parts. They are available in a wide selection of diameters, materials and styles to accommodate different temperatures, durability and gripping requirements. Air-actuated grippers are a more positive method to grab parts. They also are available in a wide range of sizes and shapes to fit onto various parts. Grippers may be angled or parallel depending on the application requirements. Various cutting tools, or nippers, are available to cut sprues.

Step 3 — Sensors are used to indicate a positive grip with a part and to control location through the use of contact switches and photo eyes. In many cases, switches are built into gripper fingers.

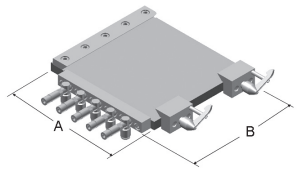
Step 4 — The pneumatic system is then added to provide the vacuum for the vacuum cups and air supply for activation of grippers and cylinders used to flex or shift the part. The electrical system is also added to operate the part sensors and controls.

Step 5 — The last steps are assembly, testing and documentation. Testing should consist of proper alignment of all gripper components, on a jig or fixture, along with actual vacuum and air testing of the tool with the part to adequately simulate the part being moved (or ejected) from the mold and secured by the EOAT. Adjusting is easy and inexpensive when using modular components. Finally, documentation includes drawings, test results and specifications and will be used for replacement and spare parts.

The major components and fittings are listed in this catalog. Additional components and services are available by contacting your DME Industrial Supplies representative.

Quick-Change System

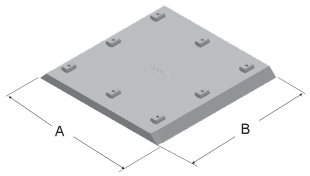
SWM… Quick-Change Mounting Chuck



Part Number				
Type	GPM	Style	A	B
SWM	1		123	100
SWM	2		231	160
SWM	3		330	250
SWM	1	E	123	100
SWM	2	E	231	160
SWM	3	E	330	250

Part Number Example: SWM 2 E
Note: E = Less Pneumatic Coupler & Fittings

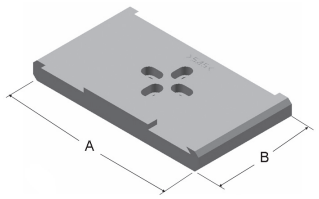
GPM… Quick-Change Mounting Plates



Part Number				
Type	Size	Profile	A	B
GPM	1		100	100
GPM	2		160	160
GPM	3		250	250
GPM	1X	L/X	100	100
GPM	2X	L/X	160	160
GPM	3X	L/X	250	250

Part Number Example: GPM 2 X
Note: L/X = With L/X Channel Nuts & Fastners

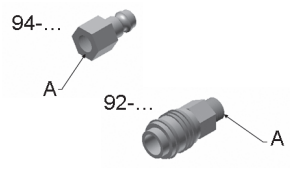
GHV… Wall Mount



Part Number			
Type	GPM	A	B
GHV	1	120	76.2
GHV	2	180	101.6
GHV	3	270	152.4

Part Number Example: GHV 2

Fittings

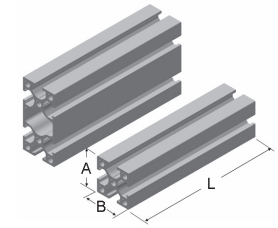


Part Number	Compatible	
	A	Fitting
94-4902	M5	92–5002
94-0104	G⅛	92–0204
94-0306	G¼	92–0406
92-5002	M5	94–4902
92-0204	G⅛	94–0104
92-0406	G¼	94–0306

Part Number Example: 94–0104

Frame Profiles

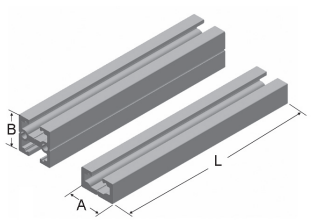
X Aluminium Profile



Part Number			
Type	A/	B	L
X	25/	25	2m
X	50/	25	2m

Part Number Example: X25/25

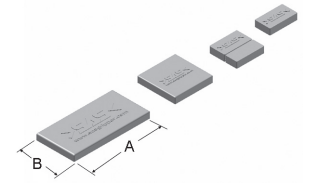
C Light… Aluminum Profile



Part Number			
Type	A/	B	L
C	18/	10L	2m
C	18/	18L	2m

Part Number Example: C18/18L

ADK… Profile End Caps

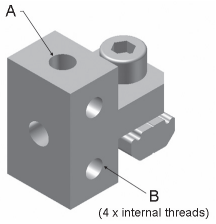


Part Number				
Type	A	B	Profile	Colour
ADK	18/	10Y	L	Yellow
ADK	18/	18Y	L	Yellow
ADK	25/	25Y	X	Yellow
ADK	50/	25Y	X	Yellow

Part Number Example: ADK 18/18YL

Pneumatic Connectors

VTB… Manifold Block

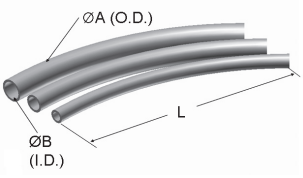


Part Number			
Type	A	Profile	B
VTB	M5	L	M5
VTB	1/4	X	G⅛

Part Number Example: VTB 1/4X

Pneumatic Connectors

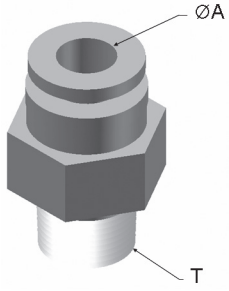
Tubing



Part Number				
Type	ØA-	ØB	L	Colour
03-	04-	03B	20	Blue
03-	04-	03Y	20	Yellow
03-	04-	03B	100	Blue
03-	04-	03Y	100	Yellow
03-	06-	04B	20	Blue
03-	06-	04Y	20	Yellow
03-	06-	04B	100	Blue
03-	06-	04Y	100	Yellow
03-	08-	06B	20	Blue
03-	08-	06Y	20	Yellow
03-	08-	06B	100	Blue
03-	08-	06Y	100	Yellow

Part Number Example: 03-06-04Y20
Yellow - Vacuum/Blue - Compressed Air
L = Meters per roll

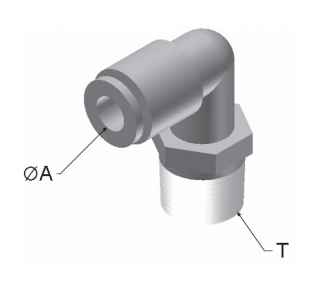
H… Male Connector One-Touch Fitting



Part Number			
Type	ØA-	T	Thread
H	04	M5	M5
H	04-	01S	G⅛
H	06	M5	M5
H	06-	01S	G⅛
H	06-	02S	G¼
H	08-	01S	G⅛
H	08-	02S	G¼

Part Number Example: H06-01S

L… Male Elbow One-Touch Fitting

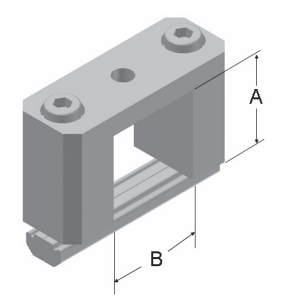


Part Number			
Type	ØA-	T	Thread
L	04	M5	M5
L	04-	01S	G⅛
L	06	M5	M5
L	06-	01S	G⅛
L	06-	02S	G¼
L	08-	01S	G⅛
L	08-	02S	G¼

Part Number Example: L06-01S

Frame Connectors

KBV… Cross Joint Connector



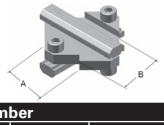
Part Number			
Type	A-	B	Profile
KBV	10-	18	L
KBV	18-	18	L
KBV	25-	25	X
KBV	25-	50	X
KBV	50-	25	X

Part Number Example: KBV25-25X

A

Frame Connectors

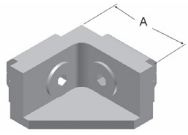
KPL… Cross Joint Connector



Part Number			
Type	A	B	Profile
KPL	18-	18	L
KPL	25-	25	X
KPL	25-	50	X
KPL	50-	50	X

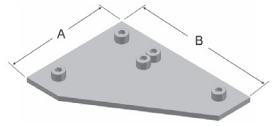
Part Number Example: KPL25–25X

WIV… Angle Joint Connector



Part Number		
Type	A	Profile
WIV	25	X
WIV	50	X

EVB… Corner Joint Plate

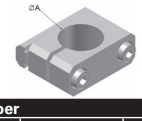


Part Number			
Type	Profile	A	B
EVB	25X	101.6	75
EVB	50X	101.6	100

Part Number Example: EVB25X

Mounting Clamps

KVB… Cross Clamp

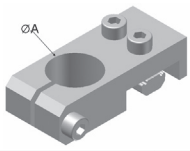


Part Number		
Type	ØA	Profile
KVB	10	L/X
KVB	14	L/X
KVB	20	X
KVB	30	X

Part Number Example: KVB20X

Mounting Clamps

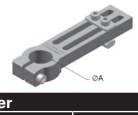
WST… Angle Clamp



Part Number		
Type	ØA	Profile
WST	10	L
WST	10	X
WST	14	X
WST	20	X
WST	30	X

Part Number Example: WST20X

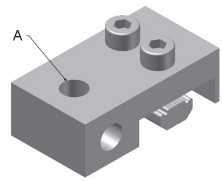
WSL Long Angle Clamp



Part Number			
Type	ØA	Profile	Material
WSL	10	L/X	Nylon Titanium
WSL	10	L/X	Aluminium
WSL	14	L/X	Nylon Titanium
WSL	14	L/X	Aluminium
WSL	20	X	Nylon Titanium
WSL	20	X	Aluminium
WSL	30	X	Nylon Titanium
WSL	30	X	Aluminium

Part Number Example: WSL20X NT or AL

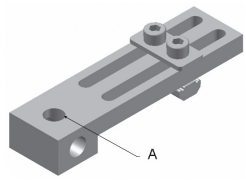
WSS… Angle Connector



Part Number			
Type	A	Profile	Thread
WSS	M5	L	M5
WSS	⅛	X	G⅛
WSS	¼	X	G¼

Part Number Example: WSS1/8X

WLS Long Angle Connector



Part Number			
Type	A	Profile	Thread
WLS	M5	L/X	M5
WLS	⅛	L/X	G⅛
WLS	¼	X	G¼

Part Number Example: WLS1/8L/X

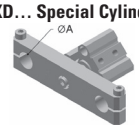
Special Cylinders

KHZ… Short Stroke Cylinder

Part Number			
Type	Bore	Stroke	Action
KHZ	12-	10	D
KHZ	20-	10	D
KHZ	20-	20	D
KHZ	20-	30	D
KHZ	32-	10	D
KHZ	32-	20	D
KHZ	32-	30	D

Part Number Example: KHZ32–20D

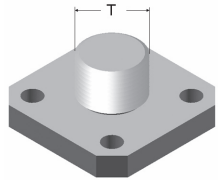
SXD… Special Cylinder



Part Number			
Type	Bore	Stroke	ØA
SZD	12-	10	10
SZD	12-	20	10
SZD	20-	10	14
SZD	20-	20	14
SZD	20-	30	14
SZD	20-	50	14
SZD	32-	10	20
SZD	32-	20	20
SZD	32-	30	20
SZD	32-	50	20

Part Number Example: SZD20–50

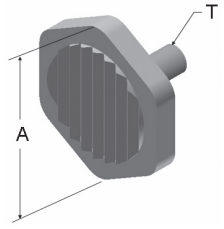
ADZ… Short Stroke Cylinder Adapter



Part Number			
Type	VLR-	KHZ	T
ADZ	14-	12	M12×1
ADZ	20-	20	M17×1
ADZ	20-	32	M17×1

Note: T = External Thread
Part Number Example: ADZ20–20

SPL… Pressure Plates

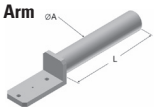


Part Number			
Type	A-	T	Thread
DPL	12-	3	M3
DPL	25-	3	M3
DPL	25-	5	M5

Part Number Example: DPL25–4

Special Cylinders

GAZ… Special Cylinder Mounting Arm

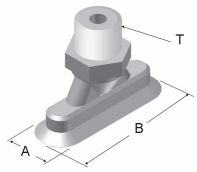


Part Number			
Type	KHZ	ØA	L
GAZ	12-	10-	30
GAZ	12-	10-	60
GAZ	12-	10-	90
GAZ	12-	14-	40
GAZ	12-	14-	80
GAZ	12-	14-	120
GAZ	20-	20-	50
GAZ	20-	20-	100
GAZ	20-	20-	150
GAZ	32-	20-	50
GAZ	32-	20-	100
GAZ	32-	20-	150

Part Number Example: GAZ20-20-50

Vaccum Cups

VS 0… Oval Vacuum Cup



Part Number				
Type	Ax	B	Mat.	T
VS0-	6X	18	N	M5
VS0-	10X	30	N	G⅛
VS0-	15X	45	N	G¼
VS0-	20X	60	N	G¼
VS0-	25X	75	N	G¼

Part Number Example: VS0-20×60N
Material: N = Nitrile Rubber

VS 1… Flat Vacuum Cup

Part Number			
Type	ØA	Mat.	T
VS1-	10	N	5
VS1-	15	N	5
VS1-	20	N	8
VS1-	25	N	8
VS1-	30	N	8
VS1-	40	N	8
VS1-	50	N	8
VS1-	80	N	4

Part Number Example: VS1-25N8
Note for T: 5 = M5 8=G⅛" 4=G¼"
Material: N = Nitrile Rubber

VS 2… 1.5 Bellows Vacuum Cup

Part Number			
Type	ØA	Mat.	T
VS2-	15	N	5
VS2-	20	N	8
VS2-	30	N	8
VS2-	40	N	8
VS2-	50	N	8

Part Number Example: VS2-30N8
Note for T: 8 = G⅛"
Material: N = Nitrile Rubber

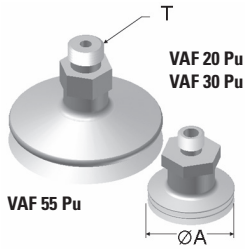
Vacuum Cups

VS3… 2.5 Bellows Vacuum Cup

Part Number			
Type	ØA-	Mat.	T
VS3-	10	N	5
VS3-	15	N	5
VS3-	15	N	8
VS3-	20	N	5
VS3-	20	N	8
VS3-	30	N	8
VS3-	40	N	8
VS3-	60	N	8

Part Number Example: VS3-20-N8
Note for T: 5 = M5 8 = G⅛"
Material: N = Nitril Rubber

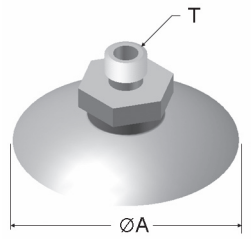
VAF… Telescopic Vacuum Cup/ Adapter



Part Number			
Type	ØA-	Mat.	T
VAF	20	Pu	G⅛
VAF	30	Pu	G⅛
VAF	55	Pu	G⅛

Part Number Example: VAF20PU
Material: Pu = Polyurethane

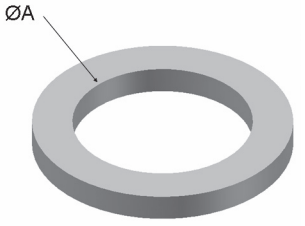
VAS… Flat Vacuum Cup/ Adapter



Part Number			
Type	ØA-	Mat.	T
VAS	20	Pu	G⅛
VAS	30	Pu	G⅛
VAS	50	Pu	G⅛
VAS	80	Pu	G¼

Part Number Example: VAS30PU
Material: Pu = Polyurethane

Sealing Rings for Vacuum Cups

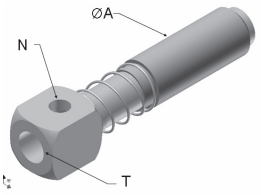


Part Number	ØA
14–49	M5
15–01	G⅛
15–03	G¼

Part Number Example: 14–49

Gripper/Mounting Arms

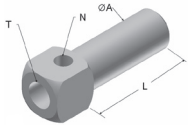
GAF… Spring Loaded Gripper Arm



Part Number					
Type	ØA	Shaft	Stroke	T	N
GAF	10	C	10	M5	M5
GAF	10	M	10	M5	M5
GAF	14	C	15	G⅛	G⅛
GAF	14	M	15	G⅛	G⅛
GAF	20	C	20	G¼	G⅛
GAF	20	M	20	G¼	G⅛

Note: M = Threaded Shaft w/Jam Nuts
C = Regular Shaft
Part Number Example: GAF14C15

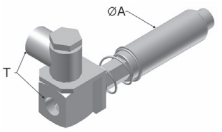
GSE… Gripper Arm



Part Number				
Type	ØA	L	T	N
GSE	10-	30	M5	M5
GSE	10-	60	M5	M5
GSE	10-	90	M5	M5
GSE	10-⅛-	30	G⅛	M5
GSE	10-⅛-	60	G⅛	M5
GSE	10-⅛-	90	G⅛	M5
GSE	14-	40	G⅛	G⅛
GSE	14-	80	G⅛	G⅛
GSE	14-	120	G⅛	G⅛
GSE	20-	50	G¼	G⅛
GSE	20-	100	G¼	G⅛
GSE	20-	150	G¼	G⅛

Part Number Example: GSE20–50

GGS… Spring Loaded Non-Rotational Arm

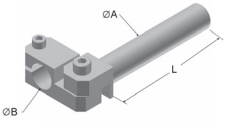


Part Number				
Type	ØA	Shaft	Stroke	T
GGS	10	C	10	M5
GGS	10	M	10	M5
GGS	14	C	15	G⅛
GGS	14	M	15	G⅛
GGS	14	C	40	G⅛
GGS	14	M	40	G⅛
GGS	20	C	20	G¼
GGS	20	M	20	G¼
GGS	20	C	50	G¼
GGS	20	M	50	G¼

Note: M = Threaded Shaft w/Jam Nuts
C = Regular Shaft
Part Number Example: GGS14C15

Gripper/Mounting Arms

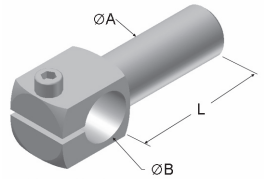
GLA… Elbow Arm



Part Number			
Type	ØA-	L	ØB
GLA	10-	30	10
GLA	10-	60	10
GLA	10-	90	10
GLA	14-	40	14
GLA	14-	80	14
GLA	14-	120	14
GLA	20-	50	20
GLA	20-	100	20
GLA	20-	150	20
GLA	20/30-	50	30
GLA	20/30-	100	30
GLA	20/30-	150	30

Part Number Example: GLA20–50

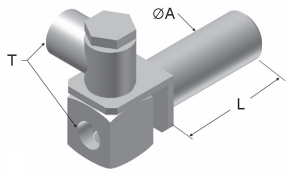
WKA… Angle Arm



Part Number			
Type	ØA-	L	ØB
WKA	10-	30	10
WKA	10-	60	10
WKA	10-	90	10
WKA	14-	40	14
WKA	14-	80	14
WKA	14-	120	14
WKA	20-	50	20
WKA	20-	100	20
WKA	20-	150	20

Part Number Example: WKA20–50

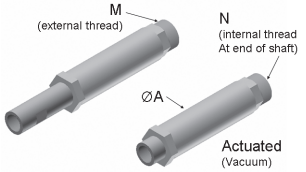
GGE… Elbow Gripper Arm



Part Number			
Type	ØA-	L	ØB
GGE	10-	30	M5
GGE	10-	60	M5
GGE	10-	90	M5
GGE	14-	40	G⅛
GGE	14-	80	G⅛
GGE	14-	120	G⅛
GGE	20-	50	G¼
GGE	20-	100	G¼
GGE	20-	150	G¼

Part Number Example: GGE20–50

RVA… Retracting Vacuum Arm

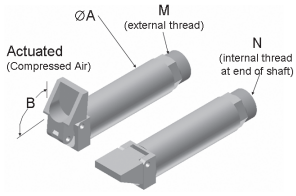


Part Number				
Type	ØA	Stroke	N	M
RVA	20-	30	G⅛	M17×1

A

Gripper Fingers

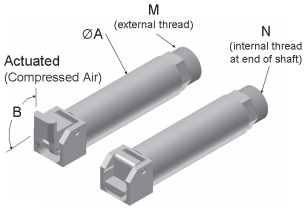
GRF… Gripper Finger (Spring Return)



Part Number				
Type	ØA	B	N	M
GRF	20-	95	G⅛	M17×1
GRF	30-	95	G⅛	M27×1

Part Number Example: GRF20–95

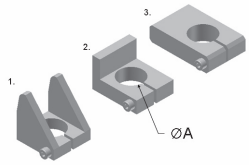
GRF… Gripper Finger (Spring Return)



Part Number				
Type	ØA	B	N	M
GRF	20-	90	G⅛	M17×1
GRF	30-	90	G⅛	M27×1

Part Number Example: GRF20–95

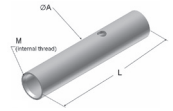
ZTS/ANS/ANF… Delrin Finger Accessories



Part Number			
Number	Type	ØA	GRF
1	ZTS	20	20–95
	ZTS	30	30–95
2	ANS	20	20–90
	ANS	30	30–90
3	ANF	20	20–95
	ANF	30	30–95

Part Number Example: ANS20

VLR… Finger Extension

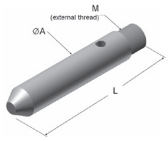


Part Number			
Type	ØA	L	M
VLR	10-	30	M8 × 1
VLR	10-	60	M8 × 1
VLR	10-	90	M8 × 1
VLR	14-	40	M12 × 1
VLR	14-	80	M12 × 1
VLR	14-	120	M12 × 1
VLR	20-	50	M17 × 1
VLR	20-	100	M17 × 1
VLR	20-	150	M17 × 1
VLR	30-	80	M27 × 1
VLR	30-	120	M27 × 1
VLR	30-	200	M27 × 12

Part Number Example: VLR30–200

Gripper Fingers

ZTB… Delrin Locator Pin

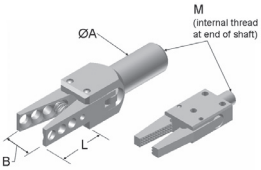


Part Number			
Type	ØA	M	L
ZTB	10	M8 × 1	50
ZTB	14	M12 × 1	110
ZTB	20	M17 × 1	110
ZTB	30	M27 × 1	100

Part Number Example: ZTB20

Part/Sprue Pliers & Grippers

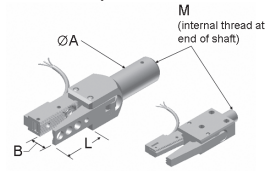
GRZ… Sprue/Parts Pliers



Part Number					
Type	ØA	Bore	L	B	M
GRZ	10-	10	29	14	M5
GRZ	20-	16	37	18	G⅛

Part Number Example: GRZ10–10

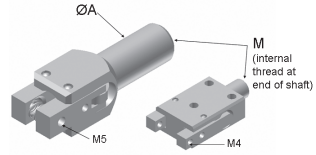
GRZ… Sprue/Parts Pliers w/PNP Senor



Part Number						
Type	ØA	Bore	Jaw	L	B	M
GRZ	10-	10	C	29	15	M5
GRZ	20-	16	C	37	18	G⅛

Part Number Example: GRZ20–16C

GRZ… Sprue/Parts Pliers w/Mounting Holes

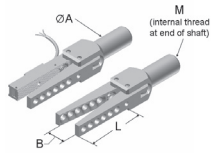


Part Number				
Type	ØA	Bore	Jaw	M
GRZ	10-	10	A	M5
GRZ	20-	16	A	G⅛

Part Number Example: GRZ20–16A

Part/Sprue Pliers & Grippers

GRZ… Sprue/Parts Pliers w/Long Jaws

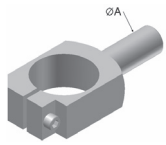


Part Number						
Type	ØA	Bore	Jaw	L	B	M
GRZ	20-	16	L	69	34	G⅛
GRZ	20-	16	LC	69	34	G⅛

Part Number Example: GRZ20–16LC

Sprue Cutters

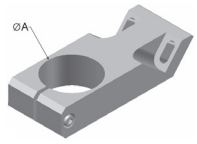
ASZ-KS… Standard Sprue Cutter Clamp



Part Number		
Type	Cutter	ØA
ASZKS20	MR20M	20
ASZKS30	MR30AM	20

Part Number Example: ASZKS20

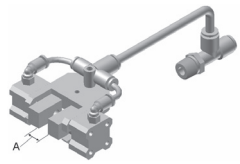
ASZ-HS… Sprue Cutter Holder



Part Number	
Type	Cutter
ASZHS20	MR20M
ASZHS30	MR30AM

Part Number Example: ASZHS20

ASZ-AH… Sprue Holder

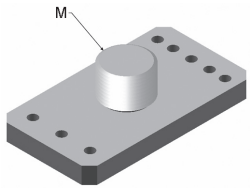


Part Number		
Type	Cutter	A
ASZAH20	MR20M	11
ASZAH30	MR30AM	16

Part Number Example: ASZAH20

Sprue Cutters

ASZ-HP… Adapter for ME Cutters

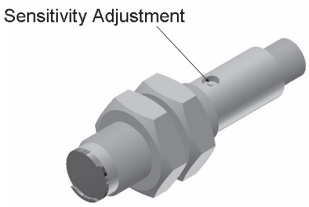


Part Number			
Type	Type	ME Size	ØA
ASZ	HP	3/5/10	M17 × 1
ASZ	HP	20/30	M17 × 1

Part Number Example: ASZHP20/30

Part Sensors

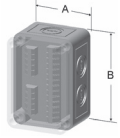
LRS… Part Sensor



Part Number			
Type	Thread	Output	Range mm
LRS14	M14	PNP	20–600
LRS18	M18	PNP	20–600

Part Number Example: LRS18

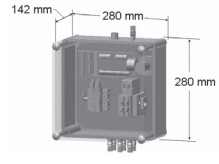
RPL & KK1… Junction Boxes



Part Number			
Type	#Output	A	B
RPL	2	65	94
RPL	4	65	94
RPL	6	94	130
RPL	8	94	130
KK	1	65	94
KK	2	94	130

Part Number Example: RPL4
RPL = Sensor "and" Logic
KK1 = Sensor Pass-through J Box

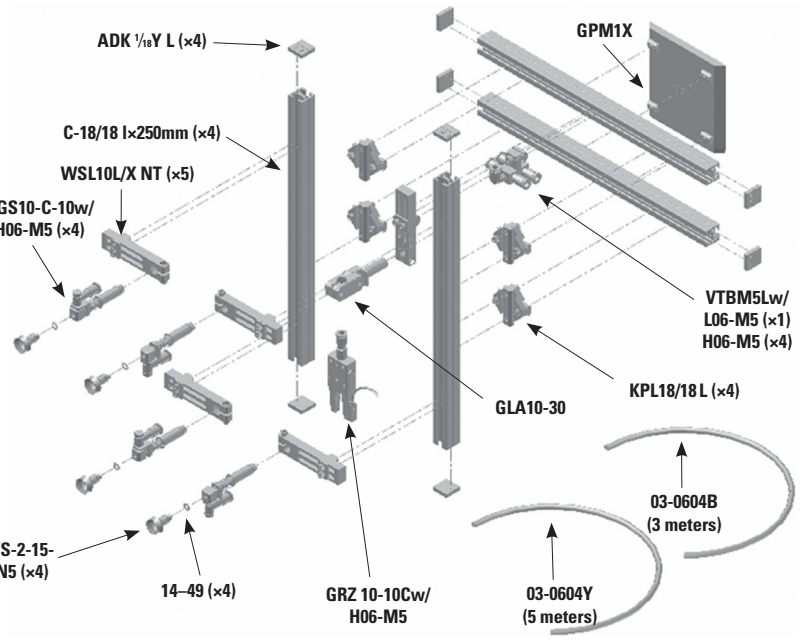
RVB… Robotic Valve Box

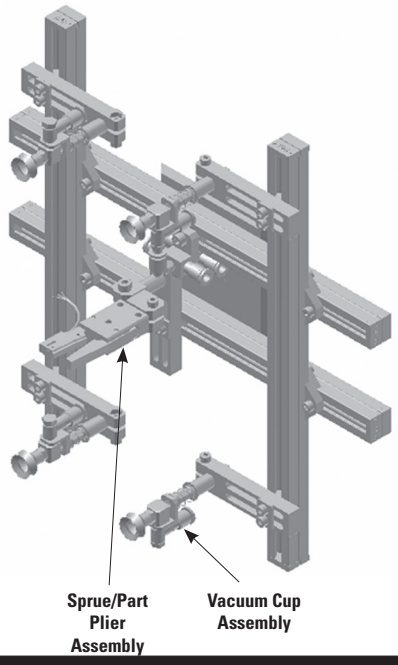


Part Number			
Type	Air	Vac	Upgrade
RVB	1-	1	U22
RVB	1-	2	U22
RVB	2-	1	U22
RVB	2-	2	U22

Part Number Example: RVB1-2U22
Includes solenoid valves for EOAT and pressure circuits, robotics interference boards (RPL+KK1) and air regulator

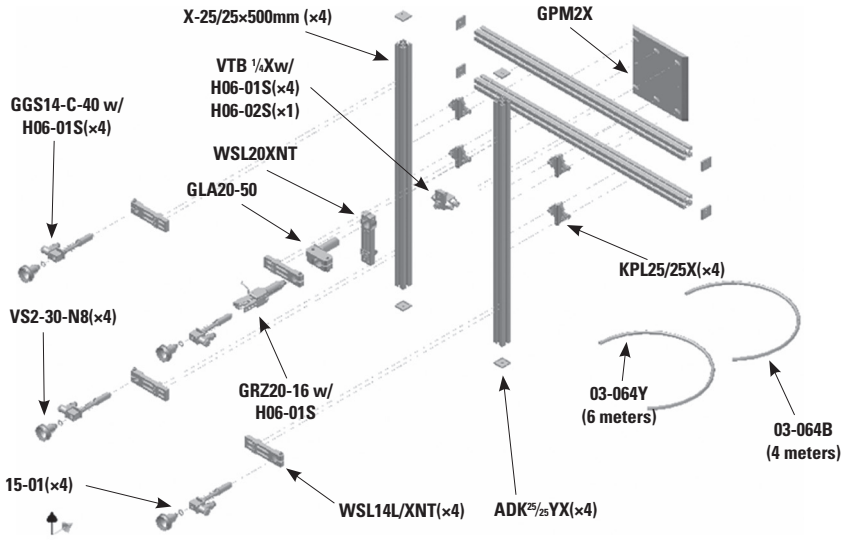
Gripper EOAT Kit C-18/18 for Robots

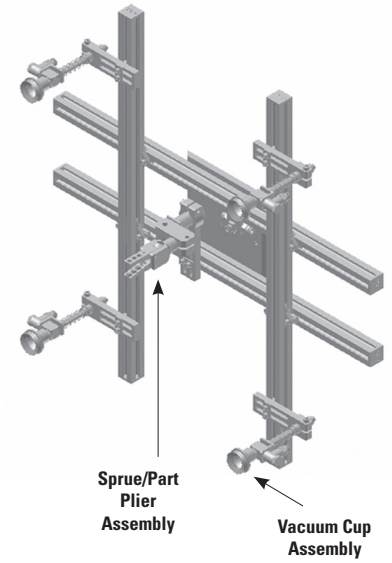




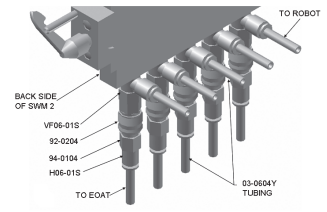
Part Number	# of Vacuum Cup Assemblies	# of Sprue/Part Plier Assemblies	Est. Part Weight	Max. Horizontal Cup Spacing	Max. Vertical Cup Spacing
EOATKITC18/18	4	0	1kg	325	225
EOATKITC18/18 W/PLIER	4	1	1kg	325	225

Gripper EOAT Kit X-25/25 for Robots

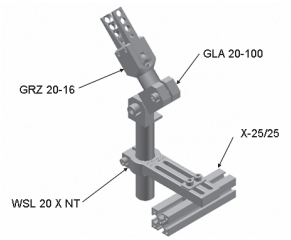




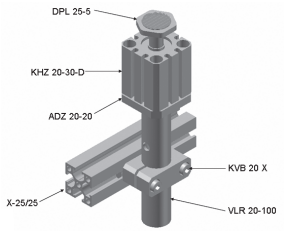
Part Number	# of Vacuum Cup Assemblies	# of Sprue/Part Plier Assemblies	Est. Part Weight	Max. Horizontal Cup Spacing	Max. Vertical Cup Spacing
EOATKITX25/25	4	0	5kg	650	525
EOATKITX25/25 W/PLIER	4	1	5kg	650	252



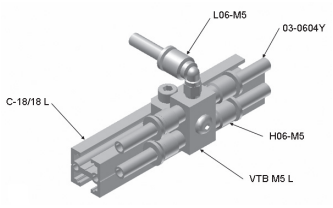
Quick-Change System Assembly



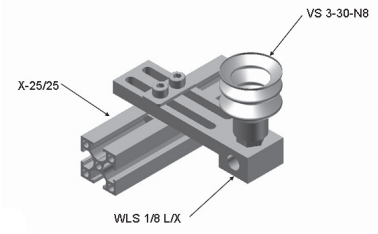
Part/Sprue Plier & Gripper Assembly



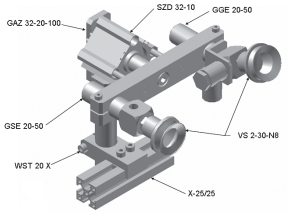
Special Cylinder Assembly



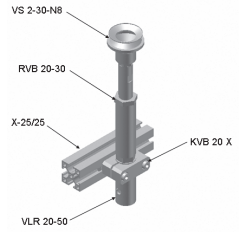
Pneumatic Connector/Accessories Assembly



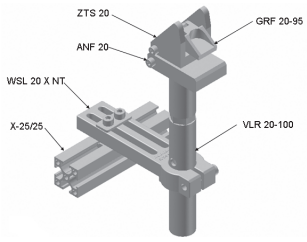
Mounting Clips Assembly



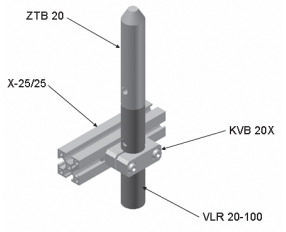
Special Cylinder & Gripper/Mounting Arm Assembly



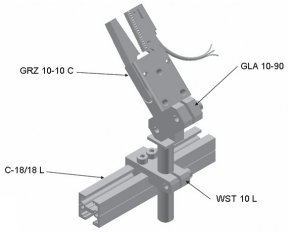
Gripper/Mounting Arm Assembly



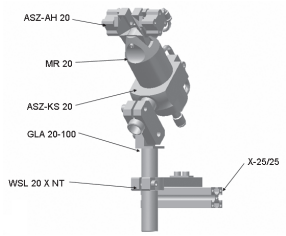
Gripper Finger Assembly



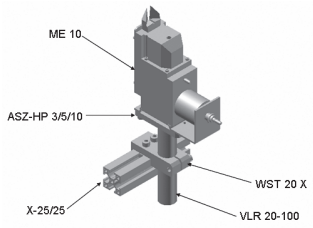
Gripper Finger Assembly



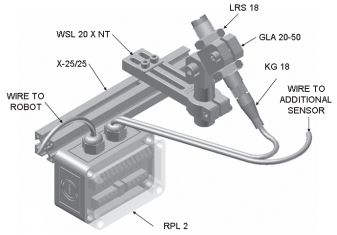
Part/Sprue Plier & Gripper Assembly



Sprue Cutter Assembly



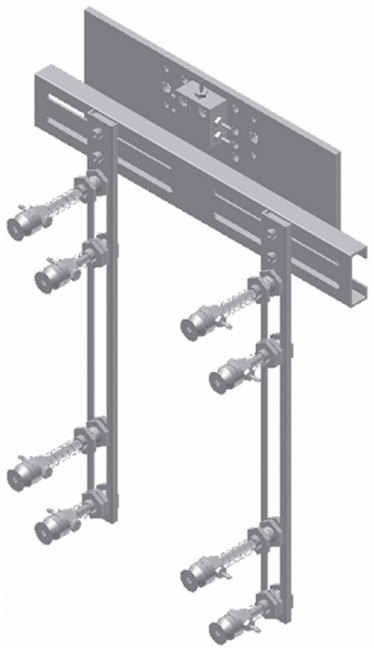
Sprue Cutter Assembly

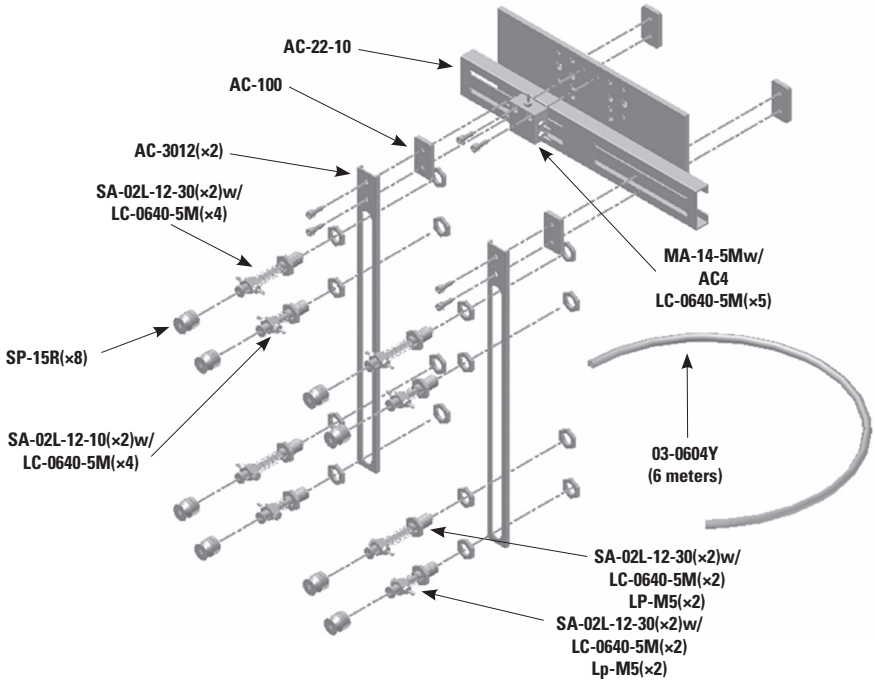


Part Sensor Assembly

- Modular, Adjustable Gripper Components
- Dependable Technical Service
- Other Items and Sizes Available Upon Request

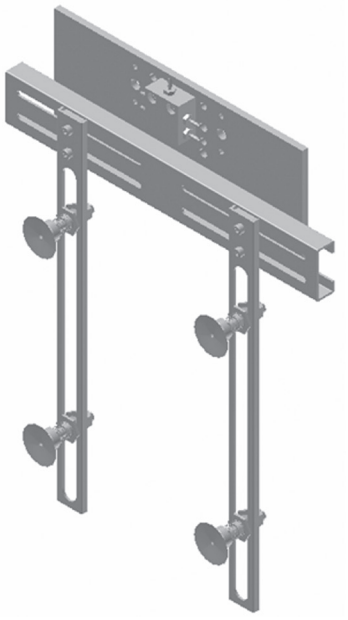
Gripper Kit 8-Cup for EOAT/Sprue Pickers

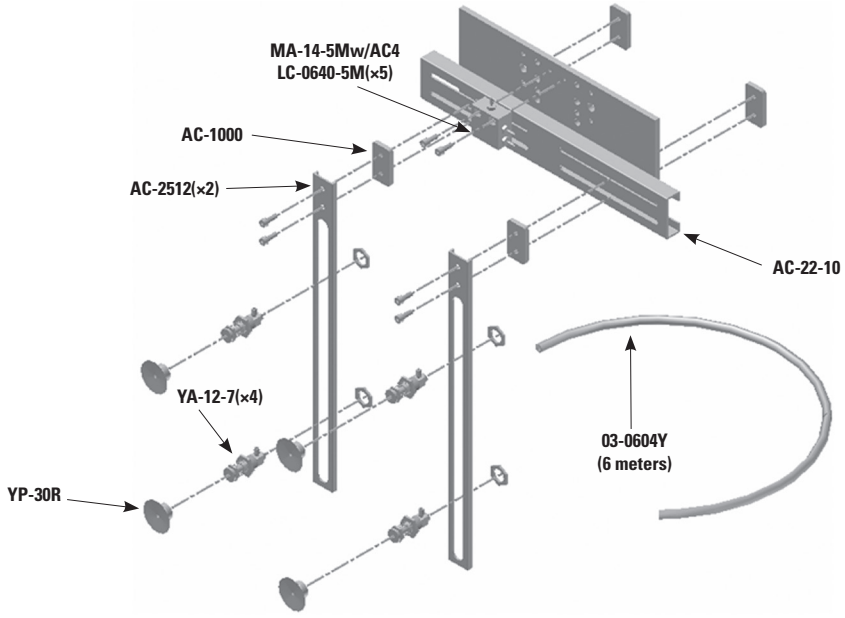




Part Number	# of Vacuum Cup Assemblies	Est. Part Weight	Max. Horizontal Cup Spacing	Max. Vertical Cup Spacing
Gripper Kit 8 Cup For Sprue Pickers	8	500 grams	225	240

Gripper Kit 4-Cup for EOAT/Sprue Pickers

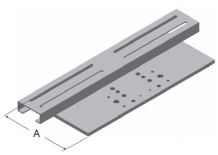




Part Number	# of Vacuum Cup Assemblies	Est. Part Weight	Max. Horizontal Cup Spacing	Max. Vertical Cup Spacing
Gripper Kit 8 Cup For Sprue Pickers	4	500 grams	225	195

Chuck Mounting Plate & Profiles for EOAT/Sprue Pickers

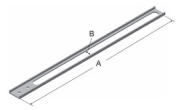
Chuck Mounting Plate



Part Number	A
AC2210	100
AC2240	140

Part Number Example: AC2210

Slide Rail



Part Number	A	B
AC2510	250	10
AC2512	250	12
AC3010	300	10
AC3012	300	12
AC3510	350	10
AC3512	350	12

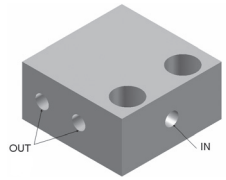
Part Number Example: AC3012

Mounting Fasteners for Rails

Part Number
AC1000
Includes
Plane Nut (Large)
Screw
Spacer

Part Number Example: AC1000

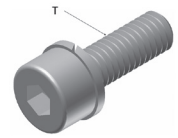
Manifold



Part No.	In Flow	Out Flow
MA14-5M	M5 (×1)	M5 (×4)

Part Number Example: MA14-5M

Manifold Mounting Screws

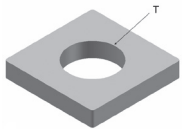


Part Number	T
AC4	M4

Note: Comes in quantities of 2
Part Number Example: AC4

Vacuum/Suction Cups

Suction Cup Holder Mounting Nut



Part Number Type	T
AC	010
AC	012

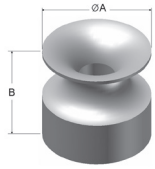
Part Number Example: AC010

SP… S-Series Suction Cup

Part Number Type	A	B	Arm
SP	06M	12	SA-01L-
SP	08M	12	SA-01L-
SP	09M	12	SA-01L-
SP	13M	12	SA-01L-
SP	15M	16	SA-02L-
SP	20M	16	SA-02L-
SP	30M	16	SA-02L-
SP	40M	16	SA-02L-
SP	13S	12	SA-02L-
SP	20S	12	SA-02L-
SP	30S	12	SA-02L-
SPBE	12	17	SA-01L-
SPBE	20	25	SA-02L-

Part Number Example: S P20

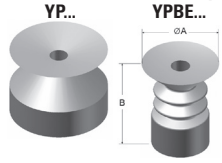
HP… H-Series Suction Cup



Part Number Type	A	B	Arm
HP	06	12	HA-
HP	08	12.5	HA-
HP	10	14	HA-
HP	15	14.5	HA-

Part Number Example: HP06

YP… Y-Series Suction Cup

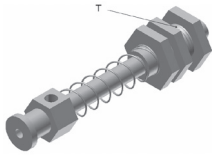


Part Number Type	A	B	Arm
YP	06R	12	YA-
YP	08R	12	YA-
YP	10R	12	YA-
YP	13R	12	YA-
YP	16R	12	YA-
YP	22R	12	YA-
YP	30R	12	YA-
YP	40R	12	YA-
YPBE	10R	21	YA-
YPBE	16R	21	YA-
YPBE	20R	21	YA-

Part Number Example: YP30R

Holder/Mounting Arm

SA… Suction Cup Holder for S Series

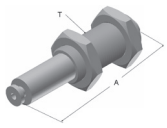


Part Number Type	T	Stroke
SA01L	10-	5
SA01L	12-	10
SA02L	10-	5
SA02L	12-	5
SA02L	12-	10
SA02L	12-	30

Note: T = Threaded shaft
Part Number Example: SA02L12-5

Holder/Mounting Arm

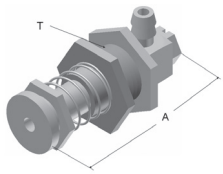
HA… Suction Cup Holder for H-Series



Part Number Type	Stroke	T	A
HA01J-	10	16	30
HA01J-	15	16	41
HA01J-	20	16	51
HA01J-	25	16	61
HA01J-	30	16	71

Note: T = Threaded shaft
Part Number Example: HA01J20

YA… Suction Cup Holder for Y-Series

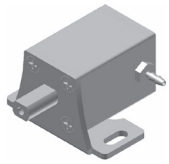


Part Number Type	T	Stroke	A
YA	8-	4	29
YA	12-	7	37

Note: T = Threaded shaft
Part Number Example: YA8–4

Cylinder, Grippers & Accessories

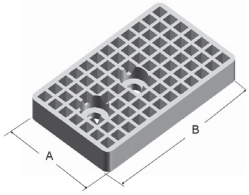
AMC… Mini Cylinder



Part Number Type	Stroke
AMC	10
AMC	15
AMC	20
AMC	20S

Note: S = Sensor
Part Number Example: AMC20

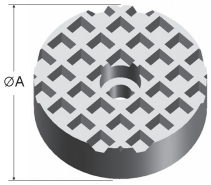
MA… Rectangular Pad



Part Number Type	A	B
MA01	30	50
MA01S	30	50

Note: S = Silicon
Part Number Example: MA01

MA… Round Pad w/Rubber

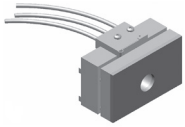


Part Number Type	A
MA03	25
MA04	50

Part Number Example: MA04

Cylinder, Grippers & Accessories

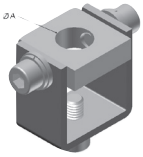
MA… Rectangular Plate w/Rubber & Sensor



Part Number Type
MA05

Part Number Example: MA-05

AB… Suction Cup Angle Bracket

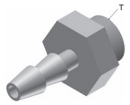


Part Number Type	A
AB	10
AB	12

Part Number Example: AB12

Pneumatic Connectors

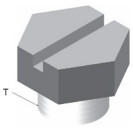
LC… Barb Fittings



Part Number Type	Tubing	T
LC	0425	M5
LC	0640	M5

Note: 0425 = 4mm Tubing
Note: 0T = Threaded stud
Part Number Example: LC0425M5

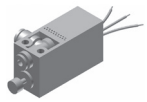
LP… Plug



Part Number Type	T
LP	M5

Note: Comes in quantities of 10
Note: T = Threaded stud
Part Number Example: LPM5

VBH… Vacuum Generator



Part Number Type
VBH10–66P
VBH10–66S

P = no switch S = with switch
Part Number Example:
VB10-66S (shown)

Vacuum Suction Cups

Recommended materials for the plastics industry

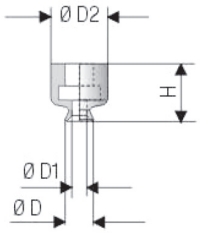
In view of the high temperature encountered in the removal of molding from the injection molds, the use of silicone cups is recommended. If plastic parts are to be printed after removal from the mold without surface finishing, we recommend the use of Viton (FKM). Should the suction cups required for your particular application not be listed in this catalog, please inquire.

VACUUM SUCTION CUPS

	Flat Suction Cups	Page 84–89
	Oval Suction Cups	Page 90–91
	Bellows Suction Cups	Page 92–97
	Fittings	Page 98–102

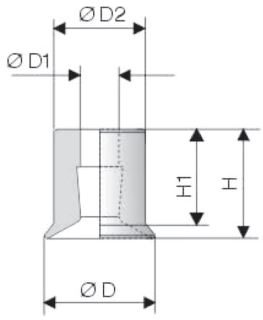
Material Number	Code	Commercial Name	Trade Name	Temp.°C Min./Max.	Wear Resistance	Resistance to: Oil/ Grease	Weather/ Ozone	Gasoline	Specifications
1	**NBR** (50 Shore A)	Nitrile Rubber	Perbunan	–40°/+90°	⊙	●	x	●	Cold-flexible, water-resistant to 70°C
2	**Si** (50 Shore A)	Silicone Rubber	Silicone	–70°/+200°	x	⊙	●	x	Anti-marking on colorless, white, beige surfaces
2-AS	**Si-AS** antistatic (50 Shore A)	Silicone Rubber	Silicone	–20°/+130°	x	⊙	●	x	
3	**NR** (50 Shore A)	Natural Rubber	SMR	–40°/+80°	●	x	x	x	
4	**NR-E** (40 Shore A)	Natural Rubber	SMR	–40°/+80°	●	x	⊙	x	Long service life
5	**PUR**	Polyurethane	Vulkollan	–25°/+80°	●	●	●	●	Long service life Vulkollan brown (anti-marking)
7	**FKM**	Fluorcaoutchouc	Viton	–20°/+200°	⊙	●	●	●	High resistance to chemicals
9	**CR** (50 Shore A)	Chloroprene	Neoprene	–40°/+90°	●	⊙	⊙	⊙	Highly weatherproof
V	**Vinyl**	Polyvinylchloride	PVC	–20°/+85°	●	x	x	x	Long service life
14	**HNBR**	Hydrogenated Nitrile Rubber		–40°/+170°	●	●	⊙	●	Long service life, highly anti-marking
15	**EPDM**	Ethylene-propyl-ene-diene rubber	Buna AP	–40°/+130°	x	x	●	x	Highly resistant to hot water, vapor and chemicals

● Recommended
⊙ Good
x Not Recommended



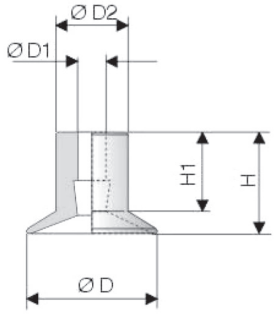
Art. No.*	Material *Material* Matériel			ØD	ØD1	ØD2	H
102.002.004	NBR (sw), Si (tr), si-AS (sw), PUR (bl), PUR (ge)	0,4 mm	0,2 g	2,0	1,0	4,0	4,0
102.003.005		0,5 mm	0,2 g	3,5	1,0	4,0	4,0

Art. No.*	Art.No.	Fittings
102.002.004	270.300	M5 AG
102.003.005		



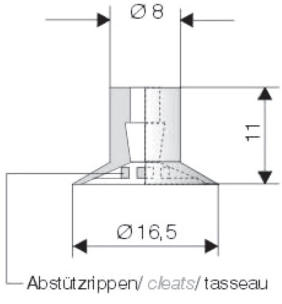
Art. No.*	Material *Material* Matériel			ØD	ØD1	ØD2	H	H1
102.005.090	NBR (sw),	0,5 mm	0,2 g	5,0	2,0	4,5	6,0	5,5
102.011.093	Si (tr),	1,0 mm	0,3 g	11,0	3,8	9,0	10,5	9,2

Art. No.*	Art.No.	Fittings
102.005.090	270.153	M5 AG
102.011.093	270.104 270.134	M6 AG M5 AG



Art. No.*	Material *Material* Matériel			ØD	ØD1	ØD2	H	H1
102.007.091	NBR (sw), Si (tr),	1,0 mm	0,1 g	7,0	2,0	5,0	6,5	5,5
102.009.092		1,5 mm	0,1 g	9,0	2,0	5,0	7,0	5,5
102.016.098		2,0 mm	0,8 g	16,0	3,8	9,0	11,5	8,5

Art. No.*	Art.No.	Fittings
102.007.091 **102.009.092**	270.153	M 5 AG
102.016.098	270.003 270.104 270.134 270.109	G⅛" AG M 6 AG M 5 AG G⅛" IG



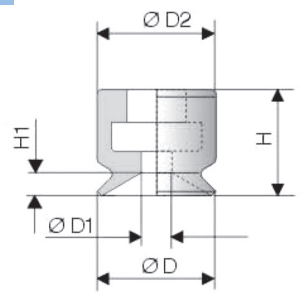
Art. No.*	Material *Material* Matériel		
104.016.003	NBR (sw), Si (tr),	0,5 mm	0,8 g

Art. No.*	Art.No.	Fittings
104.016.003	270.003 270.104 270.134 270.109	G⅛" AG M 6 AG M 5 AG G⅛" IG

Vacuum Suction Cups

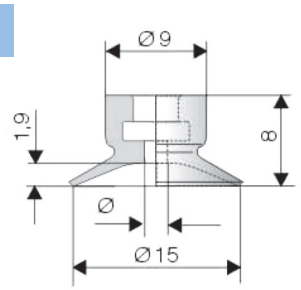
Flat Suction Cups

A



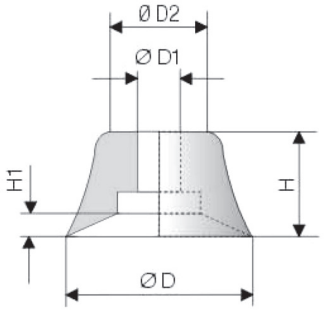
From	Art. No.*	Material *Material* Matériel			Ø D	Ø D1	Ø D2	H	H1
A	102.005.009	NBR (sw), Si (tr), Si-AS (sw), PUR (bl)	0,9 mm	0,4 g	5,0	1,5	7,5	6,5	0,9
	102.006.013		1,0 mm	0,7 g	6,0	2,0	7,5	6,5	1,0
	102.008.017		1,4 mm	0,4 g	8,0	2,0	8,0	7,0	1,4
	102.010.024		1,2 mm	0,2 g	10,0	2,0	8,5	7,5	1,3
B	102.015.309	NBR (sw), Si (tr), PUR (bl)	1,9 mm	0,5 g	15,0		9,0	8,0	1,9

B



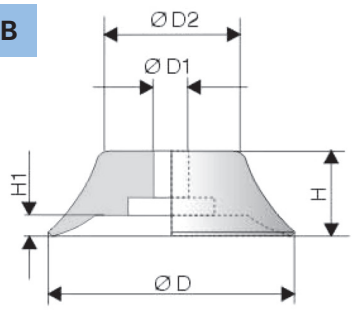
Art. No.*	Art.No.	Fittings
102.005.009 102.006.013 102.008.017 102.010.024 102.015.309	270.005 270.010 270.007 270.009	M 5 IG M 5 AG G⅛“ IG G⅛“ AG

A

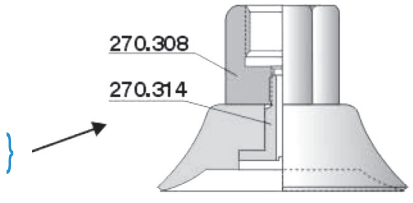


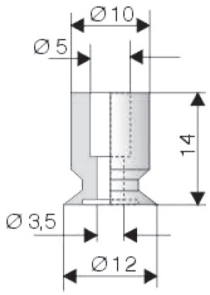
From	Art. No.*	Material *Material* Matériel			Ø D	Ø D1	Ø D2	H	H1
A	102.015.030	NBR (sw), Si (tr), PUR (bl)	2,0 mm	0,6 g	15	4,5	10	8	1,9
	102.020.041		2,0 mm	1,5 g	20	4,5	12	10	2,3
	102.025.047		2,5 mm	2,7 g	25	6,0	13	14	3,0
	102.030.053		2,0 mm	3,3 g	30	6,0	11	12	2,0
B	102.035.056		3,0 mm	6,0 g	35	6,0	18	14	3,0
	102.040.061		3,0 mm	7,6 g	40	6,0	21	14	3,5
	102.050.065		3,5 mm	11,2 g	50	6,0	23	15	4,0

B



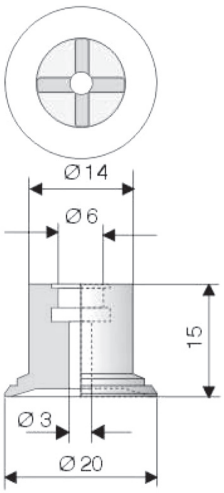
Art. No.*	Art.No.	Fittings
102.015.030	270.005 270.010 270.017 270.021	M 5 IG M 5 AG G⅛“ IG G⅛“ AG
102.020.041	270.006 270.018	G⅛“ AG G⅛“ IG
102.025.047 102.030.053 102.035.056 102.040.061	270.019 270.030 270.274 270.275 270.312	G⅛“ IG G⅛“ AG G¼“ AG G¼“ IG M 6 AG
102.050.065	270.012 270.020 270.034 270.308 270.314	G⅛“ AG G⅛“ IG G¼“ AG G¼“ IG
	270.314	M 6 AG





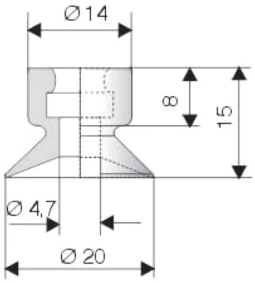
Art. No. 107.012.002._*	NBR (sw), Si (tr), NR-E (b)	0,4 mm	0,5 g

Art. No.*	Art.No.	Fittings
107.012.002	270.013	M5 AG



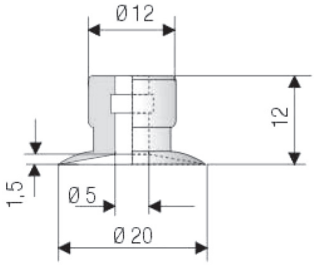
Art. No.	Material *Material* Matériel		
102.020.083.2	Si (tr) 30 Shore	1,0 mm	2,0 g
102.020.080.1	NBR (sw) 40 Shore		
102.020.082.1	NBR (sw) 60 Shore		
102.020.084.2	Si (r) 60 Shore		

Art. No.*	Art.No.	Fittings
102.020.083.2	270.037	M 5 AG
102.020.080.1	270.085	G⅛“ AG
	270.086	G⅛“ IG
102.020.082.1	270.373	M 6 AG
102.020.084.2	270.374	M 8 AG



Art. No. 126.020.020._*	NR (or) Si (tr) FKM (sw)	3,5 mm	2,2 g

Art. No.*	Art.No.	Fittings
126.020.020	270.006	G⅛“ AG
	270.018	G⅛“ IG

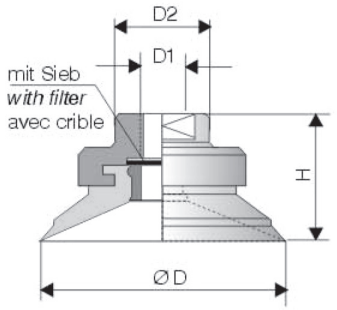


Art. No. 126.020.005._*	NBR (sw). Si (tr), NR (sw)	1,5 mm	1,0g

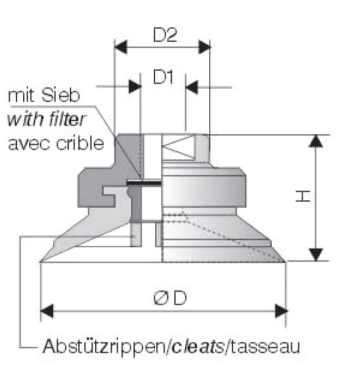
Art. No.*	Art.No.	Fittings
126.020.005	270.015	G⅛“ IG
	270.194	G¼“AG

Vacuum Suction Cups

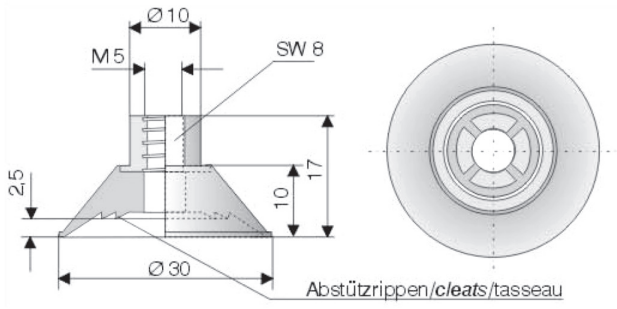
Flat Suction Cups



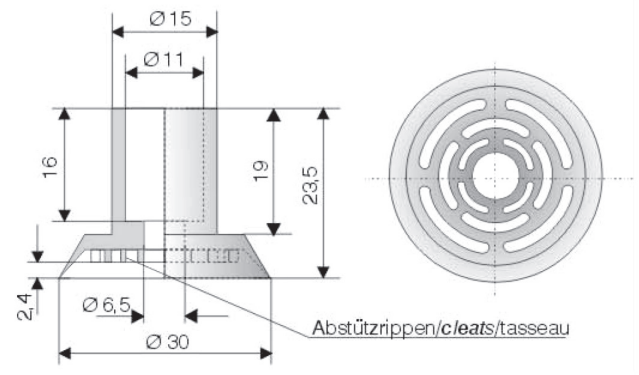
Art. No.*	Material *Material* Matériel			ØD	D1	D2	H	Ersatzsauger *Spare Cup* Vent. de rechange
120.020.006	NBP (sw), Si (tr)	2,5 mm	3,5 g	22	M5	G⅛*	16	102.020.095
120.030.013		3,5 mm	4,4 g	32	M5	G⅛"	18	102.030.096
120.040.076		4,0 mm	10,6 g	42	G⅛*	–	21	102.040.094
120.050.078		6,5 mm	23,8 g	52	G⅛"	–	26	102.050.097



Art. No.*	Material *Material* Matériel			ØD	D1	D2	H	Ersatzsauger *Spare Cup* Vent. de rechange
123.020.003	NBR (sw), Si (tr)	0,5 mm	3,5 g	22	M5	GW	16	125.020.004
123.025.010		1,0 mm	4,5 g	28	M5	GW	17	125.025.007
123.030.019		1,5 mm	5,0 g	32	M5	GW	18	125.030.010
123.040.028		2,0 mm	11,0 g	42	G⅛"	–	21	125.040.013
123.050.034		3,0 mm	24,0 g	52	G⅛"	–	26	125.050.017



Art. No. 150.030.031._*	Si (r), PUR (bg), CR (sw)	2,5 mm	3,5 g

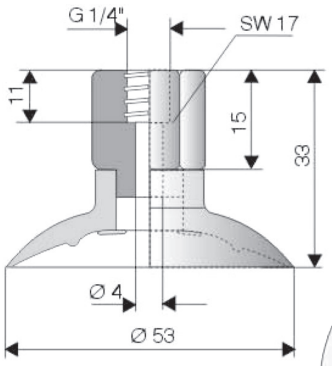


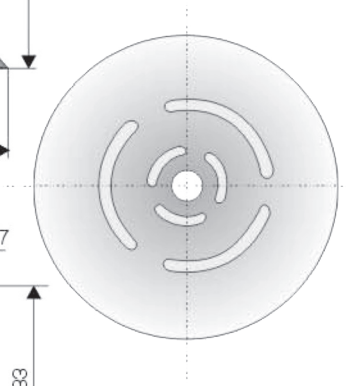
Art. No. 104.030.009.*	NBR (sw), Si (w), Si (tr), NR (sw)	2,4 mm	3,0 g

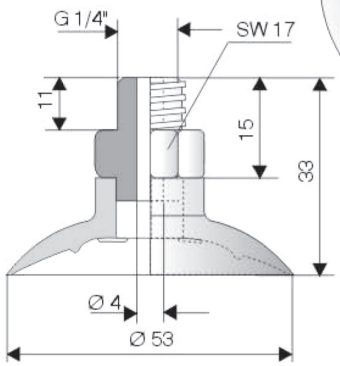
Saugerträger
Support for suction cup **Art. No. 50.043**
Porteur pour ventouse

Art. No.*	Art.No.	Fittings
104.030.009	270.044	G¼" AG
	270.046	G¼" IG

*When ordering please indicate desired material.

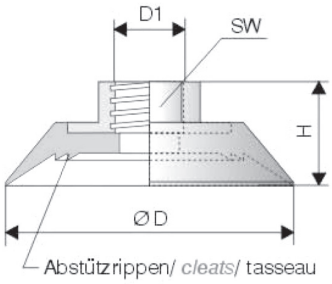




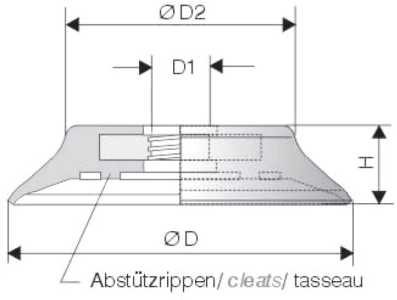


Art. No.110.053.082._*	NBR (sw), Si (r)	3,0 mm	23,0 g

Art. No.110.053.083._*	NBR (sw), Si (r)	3,0 mm	19,6 g



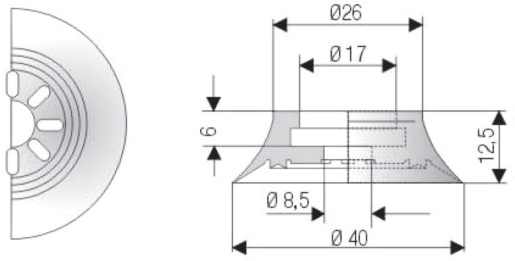
Art. No.*	Material *Material* Matériel			Ø D	D1	H	SW
150.050.032	Si (r), FKM (sw), CR (sw)	4,0 mm	13,6 g	50	G⅛“	18	14
150.075.033		6,0 mm	38,0 g	75	G¼“	24	17



Art. No.*	Material *Material* Matériel			Ø D	D1	D2	H
102.060.303	FKM (g) NBR (sw) Si (tr), PUR (or)	5,0 mm	15,2 g	60	G¼“	38.5	16
102.080.304		6,0 mm	52,8 g	80	G¼“	53,0	18
102.095.305		6,0 mm	92,0 g	95	G¼“	68,0	19

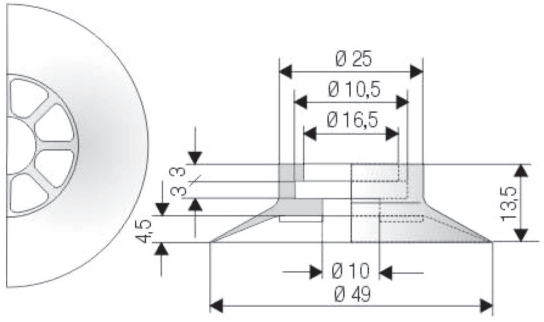
Art. No.*	Art.No.	Fittings
102.060.303	270.078	G¼“ 1G
102.080.304	270.090	M10 × 1,25
102.095.305	270.191	G¼“ AG

Flat Suction Cups

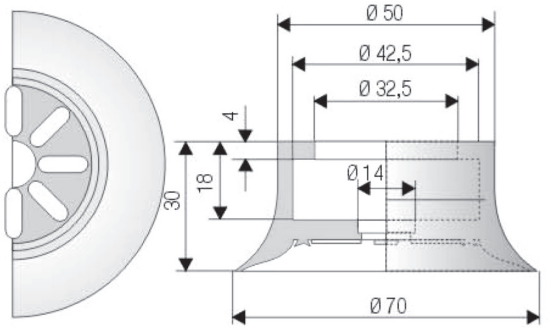


Art. No.*	Material *Material* Matériel			Art.No.	Fittings
102.040.357._*	Si (tr)	3,0 mm	20 g	270.234	G⅛" IG
	NR-E (b) 40° Sh				

für rauhe und genarbte Oberflächen
for rough and grainy surfaces
pour surfaces grainées et rugueux

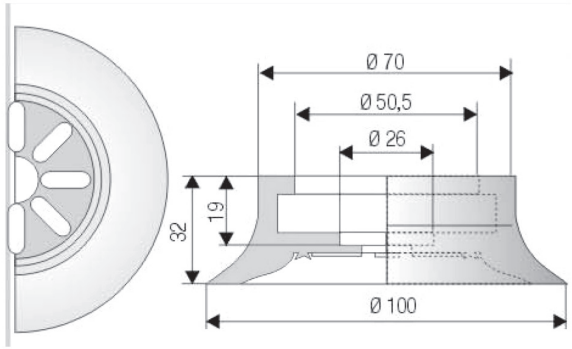


Art. No.*	Material *Material* Matériel			Art.No.	Fittings
154.049.068.1	NBR (gr)	3,5 mm	22 g	270.234	G⅛" IG



Art. No.*	Material *Material* Matériel			Art.No.	Fittings
102.070.234._*	NR (bg), SBR (rb), Si (tr),	6,0 mm	32 g	270.179	G¼" IG
	NR-E (b) 40° sh				

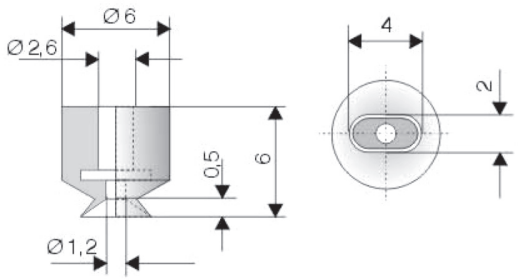
für rauhe und genarbte Oberflächen
for rough and grainy surfaces
pour surfaces grainées et rugueux



Art. No.*	Material *Material* Matériel			Art.No.	Fittings
102.100.269._*	NR (bg), SBR (rb), Si (tr),	5,0 mm	68 g	270.180 270.180-½	G¼" IG G½" IG
	NR-E (b) 40° sh				

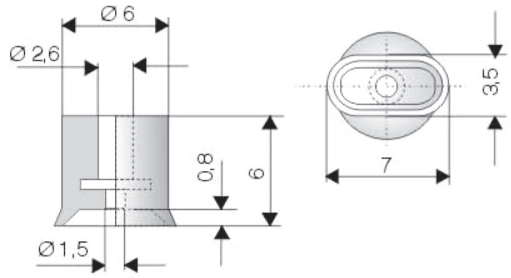
für rauhe und genarbte Oberflächen
for rough and grainy surfaces
pour surfaces grainées et rugueux

*When ordering please indicate desired material (see page 84).



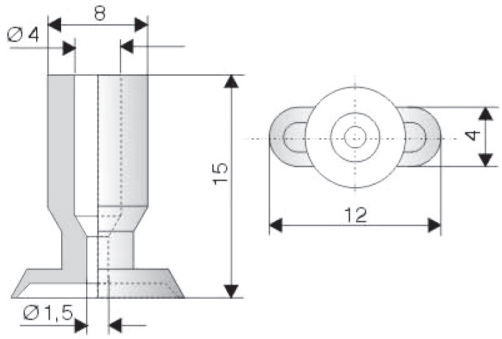
Art. No. 132.4 × 2.031._*	NBR (sw), Si (tr), Si-AS (sw) PUR (bl)	1,5 mm	0,05 g

Art. No.*	Art.No.	Fittings
132.4 × 2.031	270.300	M5 AG



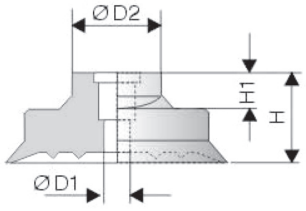
Art. No. 132.7 × 4.034._*	NBR (sw), Si (tr), Si-AS (sw) FUR (bl)	0,6 mm	0,1 g

Art. No.*	Art.No.	Fittings
132.7 × 4.034	270.300	M5 AG



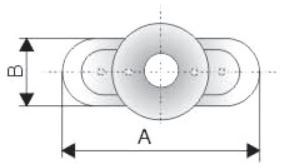
Art. No.132.12 × 4.004._*			

Art. No.*	Art.No.	Fittings
132.12 × 4.004	270.104 270.134	M6 AG M5 AG



Art. No.*	Material *Material* Matériel			A	B	D1 Ø	D2 Ø	H
132.15 × 5.008	NBR (sw), Si (r), FKM (sw)	1,0 mm	0,5 g	15	5	1,5	9	11,5
132.18 × 6.012	NBR (sw), Si (r), PUR (bg)	1,0 mm	0,5 g	18	6	2,0	9	12,0
132.24 × 8.016	NBR (sw), Si (r), NR-E (b)	1,0 mm	1,0 g	24	8	3,0	12	12,0
132.30 × 10.018	NBR (sw), Si (r), PUR (bg)	2,0 mm	1,4 g	30	10	3,5	12	12,0
132.36 × 12.019	NBR (sw), Si (r), PUR (bg)	2,0 mm	1,8 g	36	12	4,5	12	12,0

Silikon (tr) auf Anfrage/*Silicone (tr) on request*/Silicone (tr) sur demande

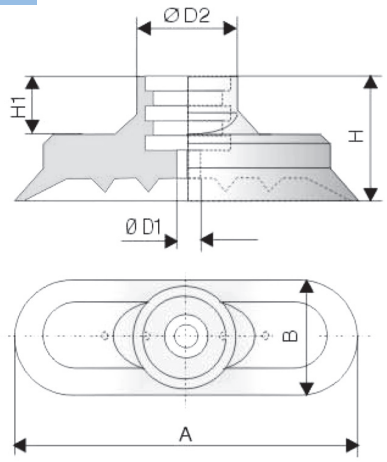


Art. No.*	Art.No.	Fittings
132.15 × 5.008 132.18 × 6.012	270.094	M5 AG
132.24 × 8.016	270.095	G⅛" AG
132.30 × 10.018	270.096	G⅛" IG
132.36 × 12.019		

Vacuum Suction Cups

Oval Suction Cups

A

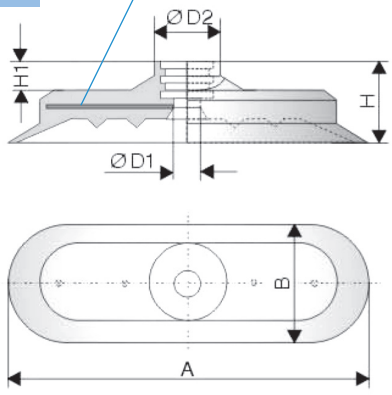


Form	Art. No.*	Material *Material* Matériel			A	B	D1 Ø	D2 Ø	H	H1
A	**132.45 × 15.020**	NBR (sw), Si (r), PUR (bg)	3,0 mm	4,2 g	45	15	4,0	17	21	14
	132.60 × 20.022	NBR (sw), Si (r), PUR (bg)	4,0 mm	9,0 g	60	20	4,0	17	21	10
	132.75 × 25.023	NBR (sw), Si (r)	4,0 mm	15,0 g	75	25	4,0	18	22	8
B	**132.85 × 28.024**	NBR (sw), Si (r)	4,0 mm	20,0 g	85	28	7,5	18	22	8
	132.100 × 35.26	NBR (sw), Si (r)	4,0 mm	32,0 g	100	35	7,5	18	22	8

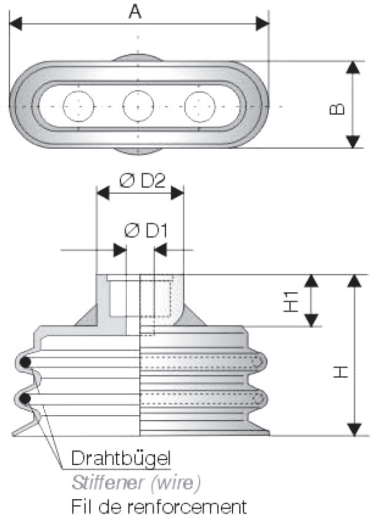
Silikon (tr) auf Anfrage/*Silicone (tr) on request*/Silicone (tr) sur demande

B

vulcanized aluminum reinforcement

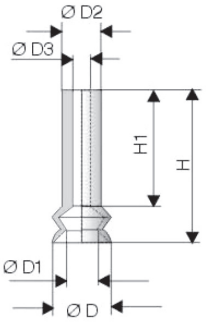


Art. No.*	Art.No.	Fittings
132.45 × 15.020 **132.60 × 20.022** **132.75 × 25.023** **132.85 × 28.024** **132.100 × 35.26**	270.097 270.098	G¼" AG G¼" IG



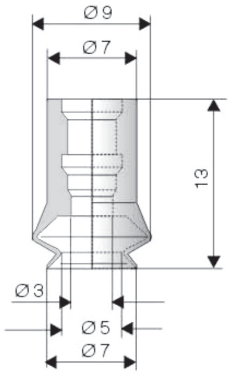
Art. No.*	Material *Material* Matériel			A	B	D1 Ø	D2 Ø	H	H1
138.25 × 8.002	NBR (sw) SI (r)	7,0 mm	2,0 g	25	8	2,5	10,0	18,5	6,0
138.45 × 15.003		8,5 mm	7,0 g	45	15	5,0	17,5	28,5	9,5
138.75 × 25.004		10,5 mm		75	25	6,0	17,7	34,5	9,5

Art. No.*	Art.No.	Fittings
138.25 × 8.002	270.094 270.095 270.096	M5 AG G⅛" AG G⅛" IG
138.45 × 15.003 **138.75 × 25.004**	270.097 270.098	G¼" AG G¼" IG



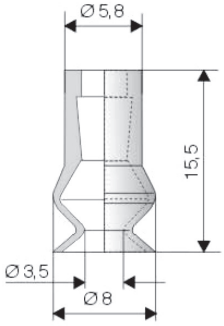
Art. No. 23.005.095.V					
Vinyl (bl)		2,0 mm		0,8 g	
øD 4,5	øD1 2,5	øD2 3	øD3 1,5	H 1,3	HI 9
Art.No.		270.001 M5 AG		Seite/page 1	

Art. No. 23.005.181._*					
NBR (sw), Si (tr), PUR (ge), FKM (g)		2,0 mm		0,8 g	
øD 5	øD1 2	øD2 3	øD3 1,5	H 13	HI 9,5
Art.No.		270.001 M5 AG		Seite/page 16	



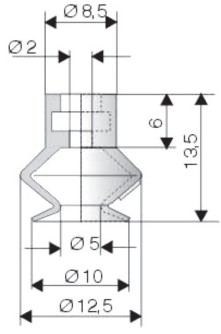
Art. No. 21.007.096._*		
NBR (sw) Si (tr)	2,0 mm	0,4 g

Art.No.	Fittings
270.104	M6 AG
270.317	M5 AG



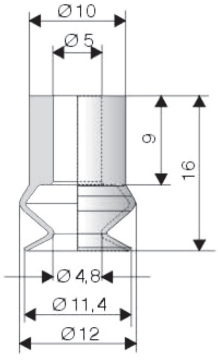
Art. No. 23.008.057.2		
Si (tr) Si-AS (sw)	3,5 mm	0,4 g

Art.No.	Fittings
270.104	M6 AG
270.134	M5 AG



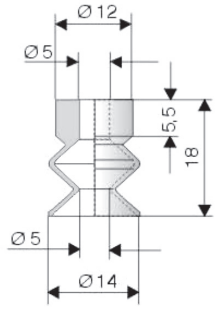
Art. No. 23.010.123._*		
NBR (sw), Si (tr), Si-AS (sw), PUR (bl), CR (sw)	4,0 mm	0,6 g

Art.No.	Fittings
270.009	G⅛"AG
270.301	M5 AG



Art. No. 23.011.008._*		
NBR (sw) Si (tr)	4,5 mm	0,8 g

Art.No.	Fittings
270.003	G⅛"AG
270.013	M5 AG
270.103	M6 AG



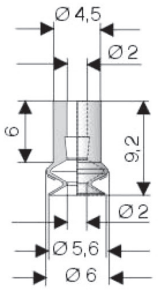
Art. No. 23.014.010._*		
NBR (sw), Si (r), NR-E (b), PUR (b), FKM (g)	8,0 mm	1,2 g

Art.No.	Fittings
270.003	G⅛" AG
270.013	M 5 AG
270.103	M 6 AG
270.110	G⅛" IG

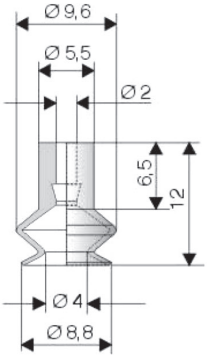
Vacuum Suction Cups

Bellows Suction Cups w/ 1½ folds

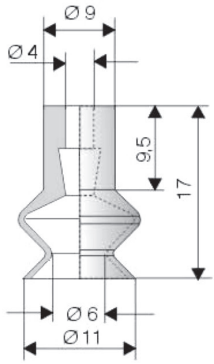
A



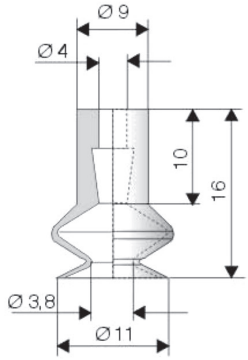
B



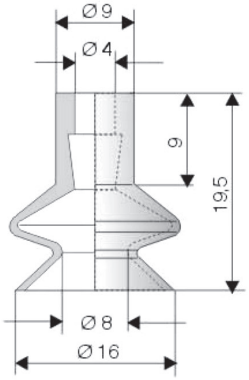
C



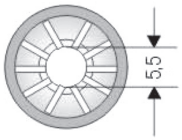
D

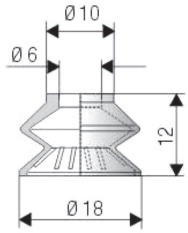


E

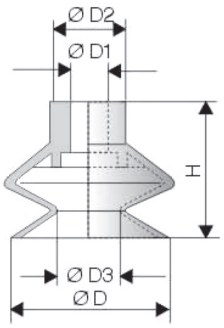


Form	Art. No.*	Material *Material* Matériel			Art.No.	Fittings
A	**23.005.178**	NBR (sw), Si (r)	2,0 mm	0,2 g	270.153	M 5 AG
B	**23.008.166**	NBR (sw), Si (tr)	3,5 mm	0,2 g		
C	**23.011.007**	NBR (sw), Si (tr), PUR (or)	5,0 mm	0,6 g	270.003	G⅛" AG
					270.015	G⅛" IG
D	**23.011.138.2r**	Si (r)	4,0 mm	1,0 g	270.104	M 6 AG
E	**23.016.015**	Si (tr), PUR (or), OR (sw)	7,0 mm	1,4 g	270.134	M 5 AG

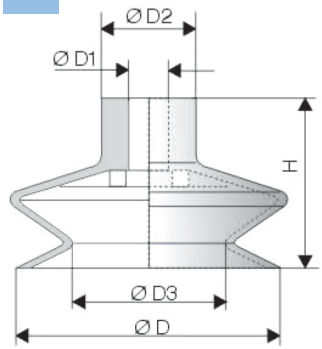




A



B



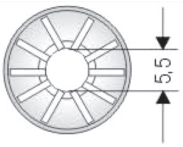
Form	Art. No.*	Material *Material* Matériel		
A	**23.016.016**	NBR (sw), Si (tr) HNBR (wr)	6 mm	1,2 g
	23.022.028		5 mm	2,0 g
	23.033.039		12 mm	7,0 g
B	**23.043.096**	NBR (sw), Si (tr) HNBR (wr)	12 mm	10,0 g
	23.053.033		11 mm	19,0 g

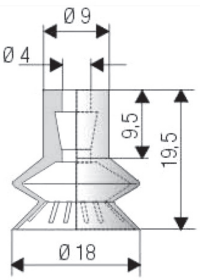
Form	Abmessungen Dimensions Dimensions	D Ø	D1 Ø	D2 Ø	D3 Ø	H
A	**23.016.016**	16	5	10	7,0	19
	23.022.028	22	5	10	10,6	19
	23.033.039	33	8	18	17,0	27
B	**23.043.096**	43	8	18	21,0	28
	23.053.033	53	8	18	33,0	34

Art. No.	Art.No.	Fittings
23.016.016 **23.022.028**	270.003 270.013 270.015 270.103	G⅛" AG M 5 AG G⅛" IG M 6 AG
23.033.039 **23.043.096** **23.053.033**	270.190 270.192	G¼" AG G¼" IG

Art. No.*	Material *Material* Matériel	mm	g
23.018.082._*	Si (tr), Si-E (tr) NR-E (bl), CR (sw)	5,5	0,6

Art. No.	Art.No.	Fittings
23.018.082.*	270.077 270.105	G⅛" AG M 6 AG

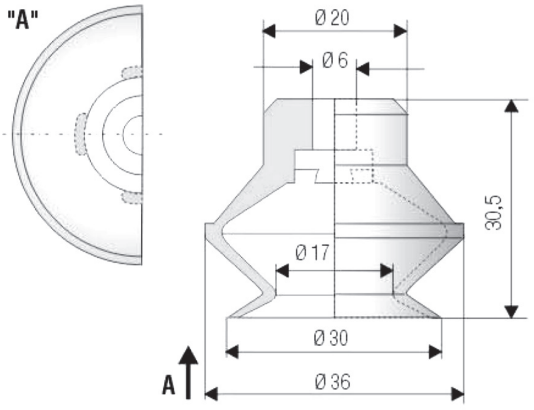




Art. No. *	Material Material Materiel	mm	g
23.018.175._*	Si (tr), NR-E (bl)	5,5	2,0

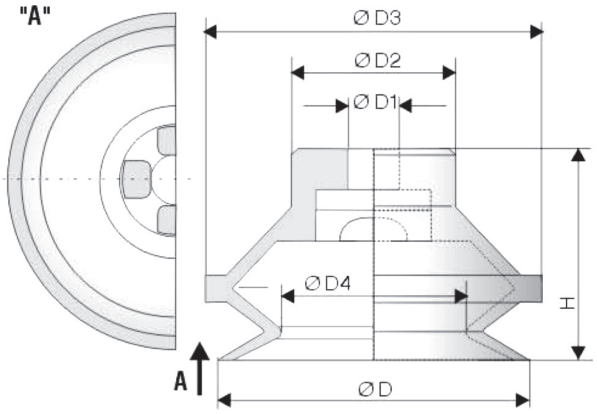
Art. No.	Art.No.	Fittings
23.018.175._*	270.003 270.015 270.134 270.104	G ⅛" AG G⅛" IG M 5 AG M 6 AG

*When ordering please indicate desired material (see page 83).



Art. No. 23.030.125._*			
NBK (sw), Si (tr), PUR (bl)	9 mm	9,0 g	Art.No. 270.019

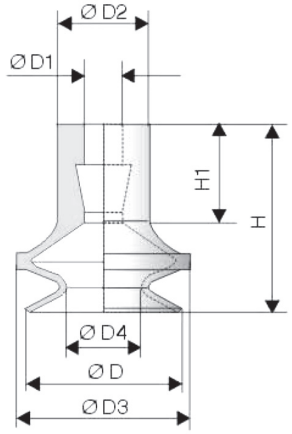
Art.No.	Fittings
270.019	G⅛" IG
270.030	G⅛" AG
270.274	G¼" AG
270.275	G¼" IG
270.312	M6 AG



Art. No.*			D Ø	D1 Ø	D2 Ø	D3 Ø	D4 Ø	H
23.040.126	10 mm	15 g	40	6	25,0	46,0	23,0	30,5
23.050.127	10 mm	23 g	50	8	28,5	59,5	32,4	36,5

Art. N0.*	Art.No.	Fittings
23.040.126	270.019 270.030 270.274 270.275 270.312	G⅛" IG G⅛" AG G¼" AG G¼" IG M 6 AG
23.050.127	270.303+270.314 270.304+270.314 270.307+270.314 270.308+270.314	G⅛" AG G¼" AG G⅛" IG G¼" IG

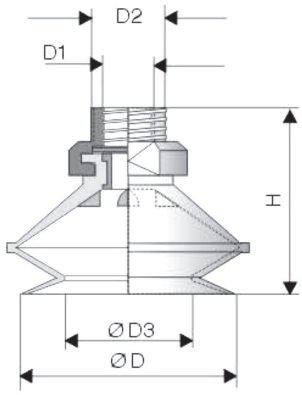
Material *Material* Matériel
NBR (sw), Si (tr), PUR (bl)



Art. No.	Material *Material* Matériel			Art.No.	Fittings
23.011.173.2	Si (tr)	3,5 mm	1,0 g	270.003	G⅛" AG
23.016.174.2	Si (tr)	5,0 mm	1,2 g	270.134	M5 AG

Art. No.	D Ø	D1 Ø	D2 Ø	D3 Ø	D4 Ø	H	H1
23.011.173.2	11	4	9	12,0	3,5	16	10
23.016.174.2	16	4	9	17,5	8,0	19	10

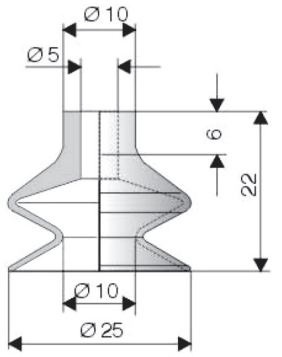
*When ordering please indicate desired material (see page 83).



Art. No.*	Material *Material* Matériel			D Ø	D1	D2	D3 Ø	H
22.020.020	NBR (sw), Si (tr), CR (sw), PUR (or)	9 mm	6 g	20	M5	G⅛"	11	26,5
22.030.033		13 mm	8 g	30	M5	G⅛"	17	34,5
22.040.045		9 mm	18 g	40	G⅛"	–	23	35,0

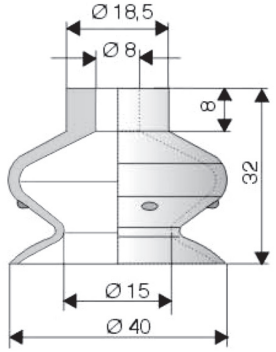
Vacuum Suction Cups

Bellows Suction Cups w/ 1½ + 2½ folds



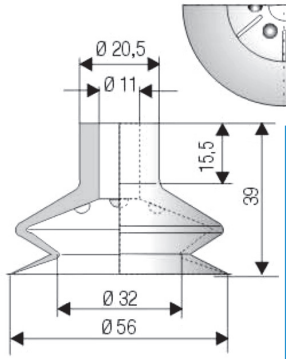
Art. No. 230.25.137._*		
NBR (sw) Si (tr) NR (gr)	9,0 mm	2,4 g

Art.No.
270.003
270.013
270.103
270.109



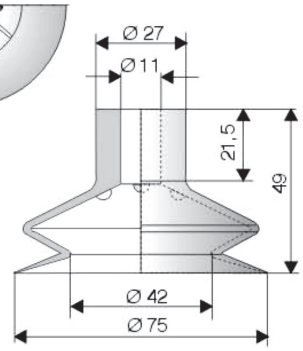
Art. No. 23.040.042._*		
NBR (sw) Si (r), PUR (b) EPDM (g) NR-E (bg)	13,0 mm	13,5 g

Art.No.	Fittings
270.092	G⅛" IG
270.093	G⅛" AG
270.248	G¼" IG
270.249	G⅛" AG



Art. No. 23.056.150.2		
Si (tr)	16 mm	16 g

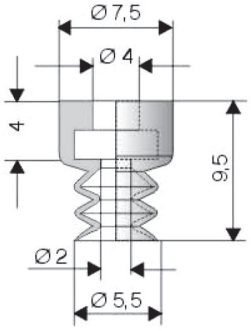
Art.No.	Fittings
270.049-1	G¼" AG



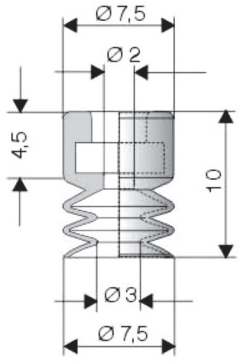
Art. No. 230.75.151.2		
Si (tr)	20 mm	35 g

Art.No.	Fittings
270.049-1	G¼" AG

Bellows suction cups with 2½ folds

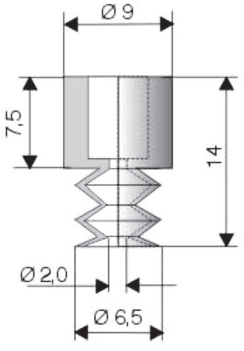


Art. No. 21.005.088.*_		
NBR (sw) Si (tr)	3,0 mm	0,4 g



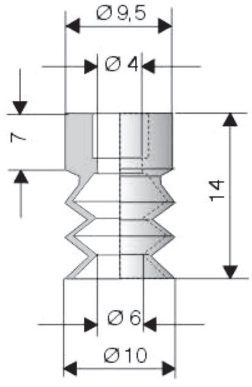
Art. No. 21.007.089.*_		
NBR (sw) Si (tr), PUR (bl)	3,0 mm	0,6 g

Art.No.	Fittings
270.010	M 5 AG



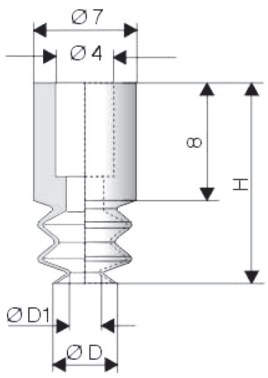
Art. No. 21.006.001._*		
NBR (sw), Si (tr), Vinyl (bl), FKM (g) EPDM (gr)	3,5 mm	0,3 g

Art.No.	Fittings
270.013	M 5 AG
270.103	M 6 AG
270.134	M 5 AG



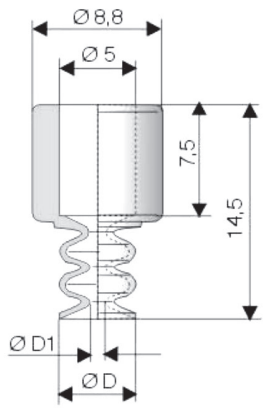
Art. No. 21.010.078._*		
Si (r), Si (tr) PUR (bg) FKM (g)	4,0 mm	0,8 g

*When ordering please indicate desired material (see page 83).



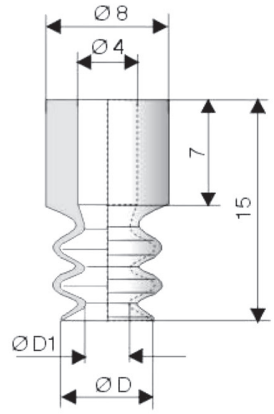
Art. No.*	Material *Material* Matériel	D Ø	D1	H
21.004.083	Si (tr)	4,2	2,2	14,0
21.005.058	NBR (sw), Si (tr)	5,0	1,3	13,5

Art. No.*			Art.No.	
21.004.083	3,0	0,4	270.104	M 6 AG
21.005.058	3,0	0,4	270.134	M 5 AG



Art. No.	D Ø	D1		
21.005.086.2	5,0	1,0	3,5 mm	0.4 g
21.006.087._*	6,5	2,6	3.5 mm	0,4 g
	Material/***Material***/Matériel			
21.005.086.2	Si (tr)			
21.006.087._*	Si (tr).NBR ($w) 65°Sri			

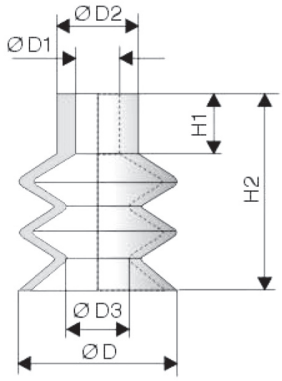
Art.No.	Fittings
270.024	M 5 AG
270.103	M 6 AG



Art. No.*	D Ø	D1		
21.006.093	6	3	3,5 mm	0.4 g
21.008094	8	4	4,0 mm	0.4 g
21.011.095	11	A	5,0 mm	1.0g

Material/***Material***/Matériel
NBR (sw). Si (tr).NR (sw)

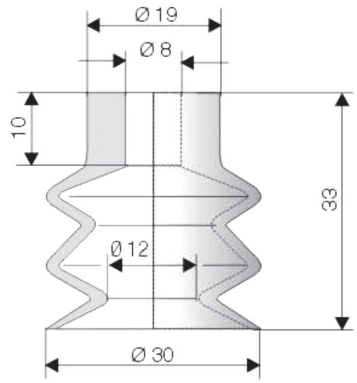
Art.No.	Fittings
270.003	G⅛" AG
270.015	G⅛" IG
270.104	M 6 AG
270.134	M 5 AG



Art. No.*	Material *Material* Matériel	D Ø	D1 Ø	D2 Ø	D3 Ø	H	H1
21.014.053	Si (tr), CR (sw)	14	3,9	8,0	5,0	18	5,0
21.018.013	NBR (sw), Si (tr) NR (sw)	18	5,0	9,5	7,5	23	7,5
21.020.015	NBR (sw), Si (tr) Si-E (tr), NR (sw)	20	5,0	10,0	9,0	22	5,5

Art. No.			Art.No.	Fittings
21.014.053	9 mm	1,0 g	270.005	M 5 IG
21.018.013	9 mm	2,3 g	270.013	M 5 AG
21.020.015	11 mm	2,2 g	270.134	M 5 AG

*When ordering please indicate desired material (see page 83).

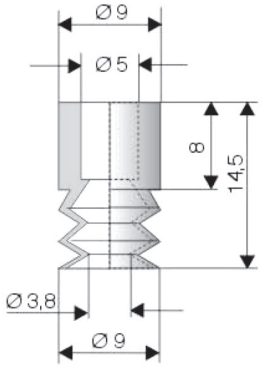


Art. No.*	Material *Material* Matériel		
21.030.019	NBR (sw), Si (r) NR-E (bg), PUR (bl) EPDM (g)	13,0	8,0

Art.No.	Fittings
270.092	G⅛" IG
270.093	G⅛" AG
270.248	G¼" IG
270.249	G¼" AG

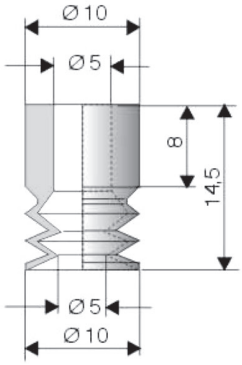
Vacuum Suction Cups

Bellows Suction Cups w/ 2½ folds



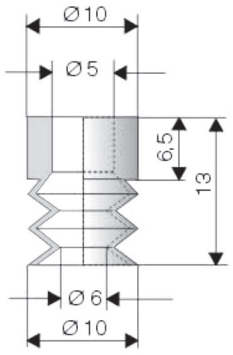
Art. No. 21.009.002._*		
NBR (sw), Si (tr), Si-E (tr), NR (gr), PUR (bl), FKM (g), HNBR (wr)	2,0 mm	0,6 g

Art.No.	Fittings
270.003	G⅛"AG
270.013	M 5 AG
270.015	G⅛" IG
270.103	M 6 AG



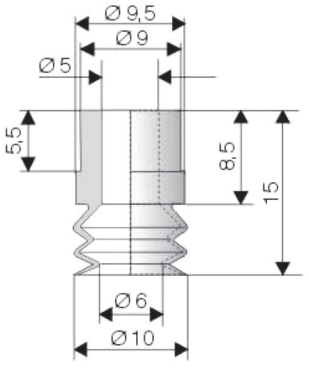
Art. No. 21.010.004._*		
NBR (sw), Si (r), PUR (bg), NR (bg)	3,0 mm	1,0 g

Art.No.	Fittings
270.013	M 5 AG
270.103	M 6 AG
270.109	G⅛" IG
270.238	G⅛" AG



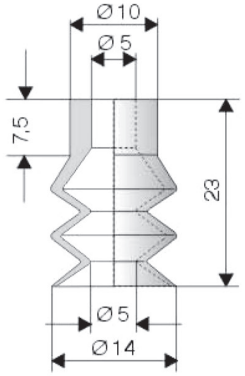
Art. No. 21.010.005.*		
NBR (sw) Si (bl)	4,0 mm	0,4 g

Art.No.	Fittings
270.094	M 5 AG
270.095	G⅛" AG
270.096	G⅛" IG
270.103	M 6 AG



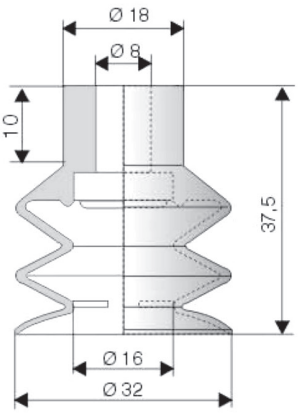
Art. No. 21.010.056._*		
Si (bl), Si (r), FKM (g) 70° Sh	4,0 mm	0,6 g

Art.No.	Fittings
270.013	M 5 AG
270.103	M 6 AG
270.109	G⅛" IG
270.238	G⅛" AG



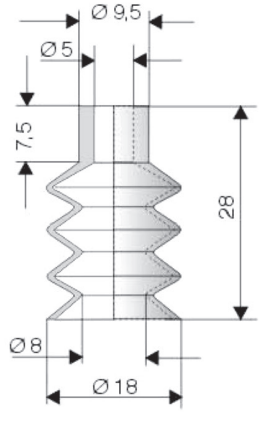
Art. No. 21.014.007._*		
NBR (sw) Si (tr), PUR (ge) FKM (g)	1,2 mm	1,2 g

Art.No.	Fittings
270.003	G⅛" AG
270.013	M5 AG
270.015	G⅛" IG
270.103	M6 AG



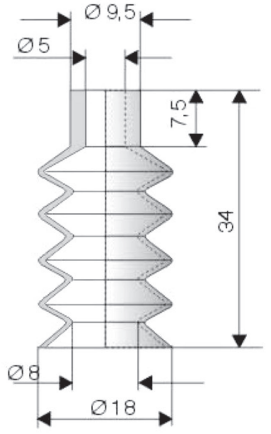
Art. No.21.032.075._*		
NBR (sw) Si (tr), Si-E (tr) PUR (bl), HNBR (wr)	1,3 mm	1,0 g

Art.No.	Fittings
270.114	G⅛" IG
270.132	G⅛" AG
270.190	G¼" AG
270.192	G¼" IG



Art. No. 25.018.031 ._*		
NBR (sw) Si (tr)	1,4 mm	2,0 g

Art.No.	Fittings
270.109	G⅛" IG
270.205	G⅛" AG
270.013	M 5 AG



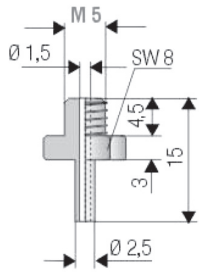
Art. No. 25.018.032._*		
Si (tr)	1,7 mm	2,4 g

Art.No.	Fittings
270.109	G⅛" IG
270.205	G⅛" AG
270.013	M 5 AG

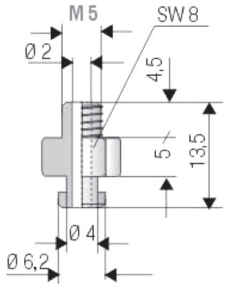
*When ordering please indicate desired material (see page 83).

A

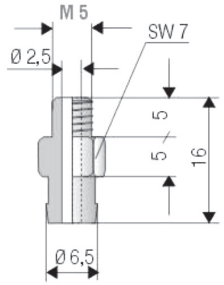
M 5 AG



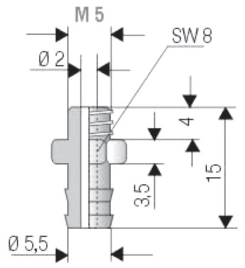
Art. No. 270.001



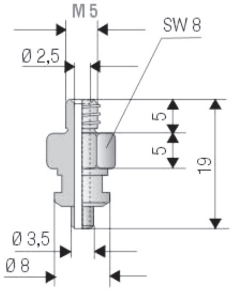
Art. No. 270.010



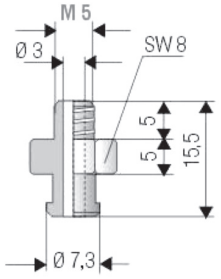
Art. No. 270.013



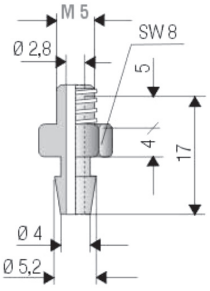
Art. No. 270.024



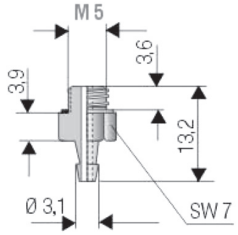
Art. No. 270.037



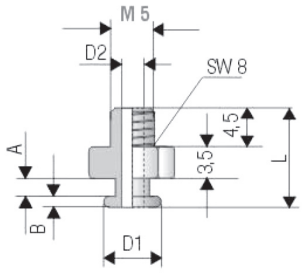
Art. No. 270.094



Art. No. 270.134



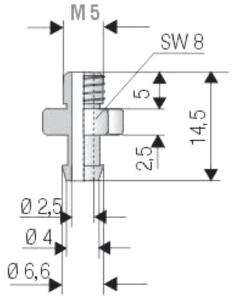
Art. No. 270.153



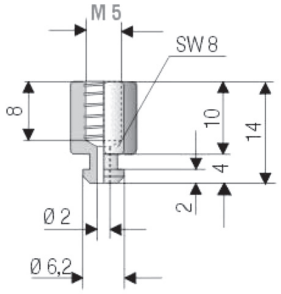
Art. No.	D	D2	L	A	B
270.300	Ø 3	Ø 1,2	10,5	1,5	1,0
270.301	Ø 6	Ø 2,5	12,0	2,0	2,0

Art. No. 270.300/301

M 5 IG

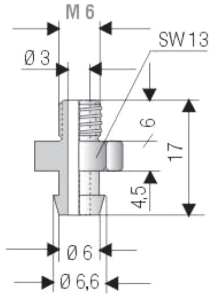


Art. No. 270.317

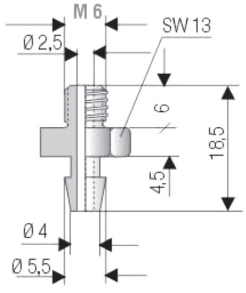


Art. No. 270.005

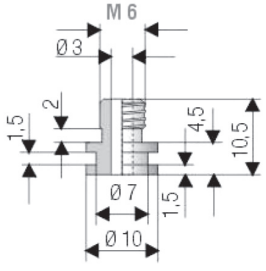
M 6 AG



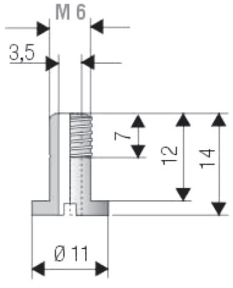
Art. No. 270.103



Art. No. 270.104

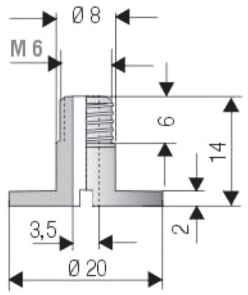


Art. No. 270.105

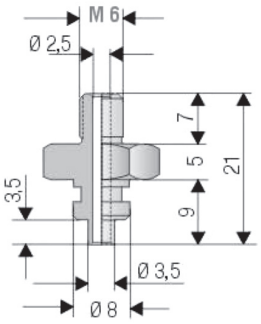


Art. No. 270.312

M 6 AG

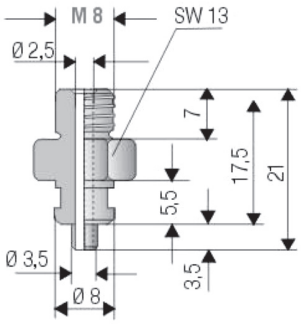


Art. No. 270.314



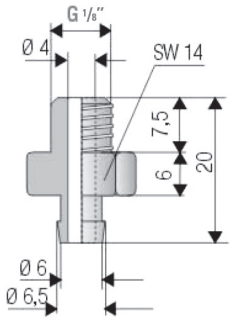
Art. No. 270.373

M 8 AG

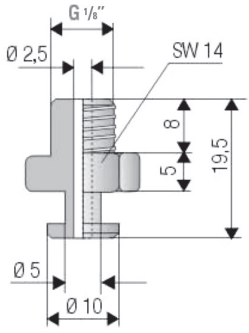


Art. No. 270.374

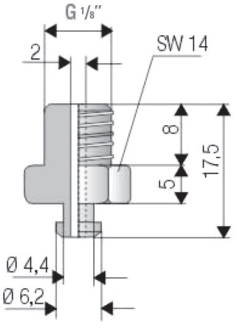
G⅛" AG



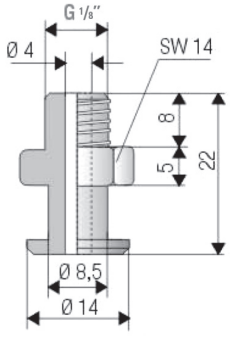
Art. No. 270.003



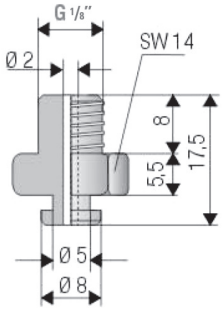
Art. No. 270.006



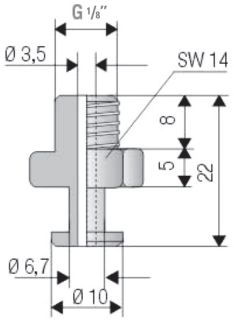
Art. No. 270.009



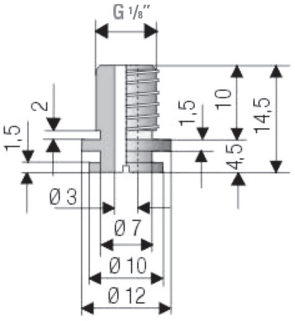
Art. No. 270.012



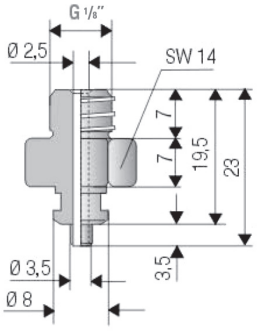
Art. No. 270.021



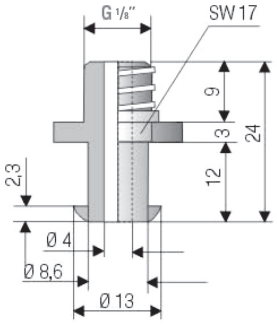
Art. No. 270.030



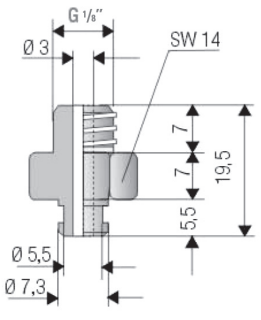
Art. No. 270.077



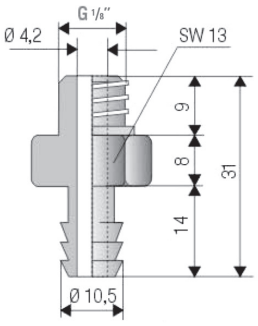
Art. No. 270.085



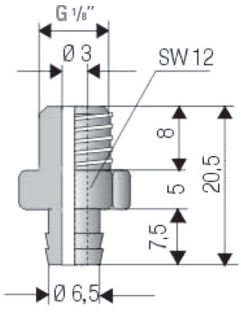
Art. No. 270.093



Art. No. 270.095



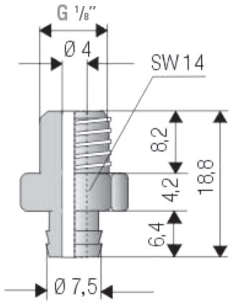
Art. No. 270.132



Art. No. 270.205

A

G⅛" AG



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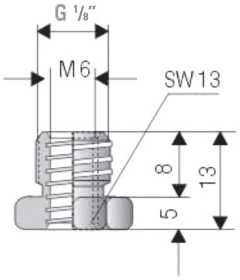

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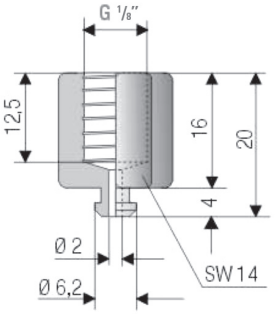

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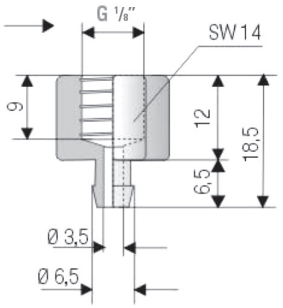

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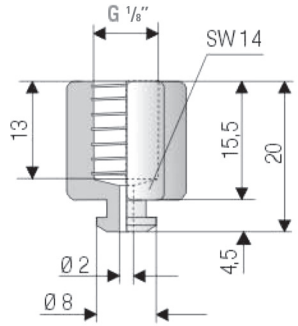

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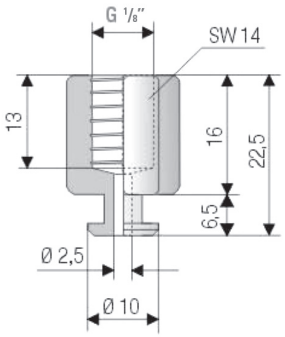

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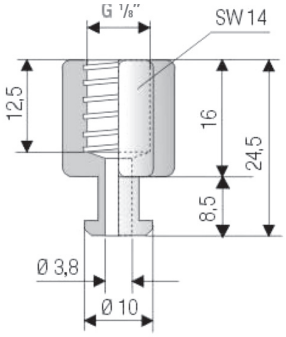

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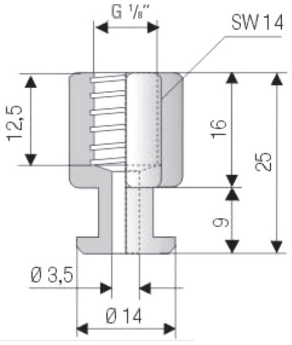

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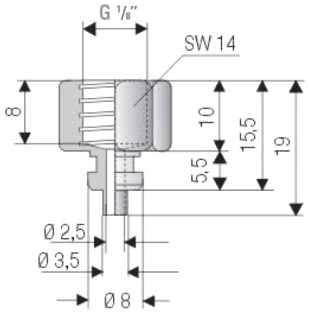

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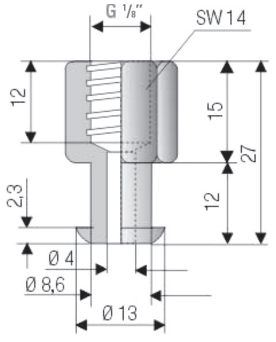

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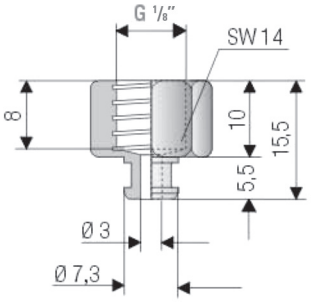

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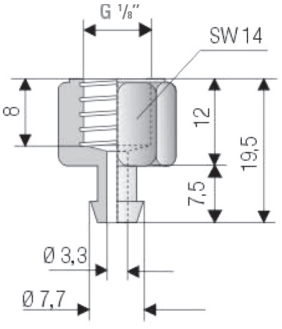

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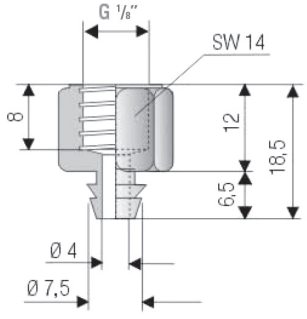

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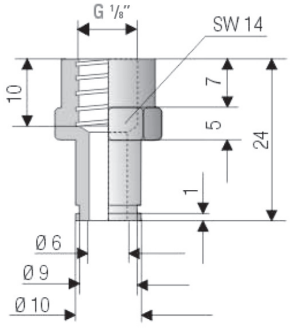

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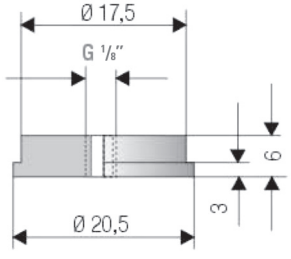

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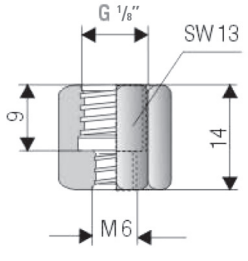
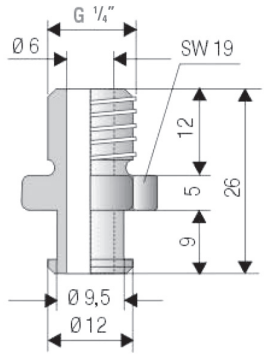


Art. No. 270.307

G¼" AG



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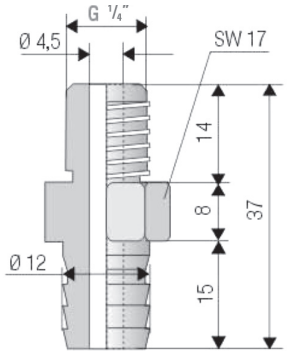

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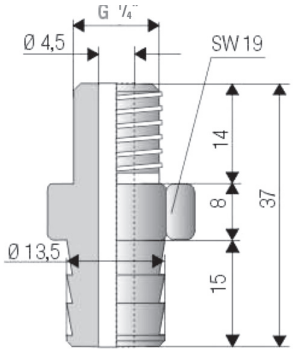

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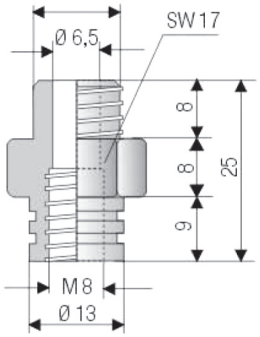

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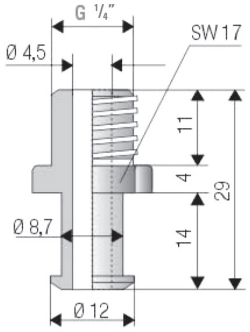

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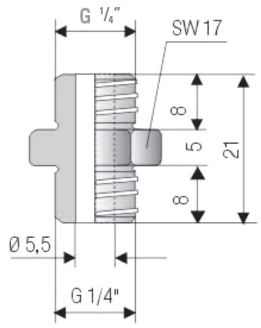

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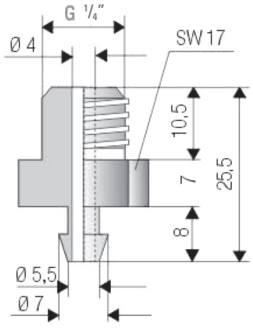

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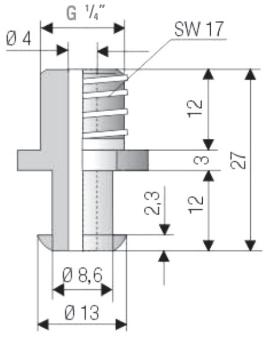

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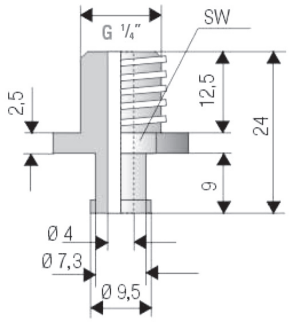

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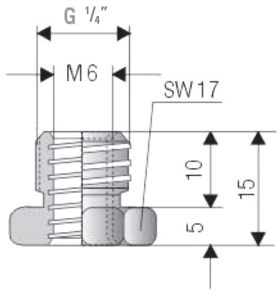

Art. No. 270.304

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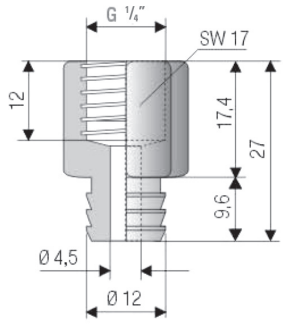

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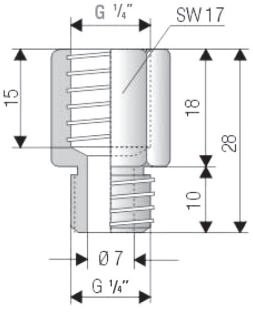

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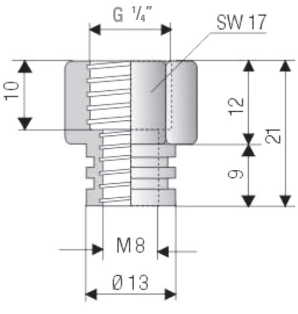

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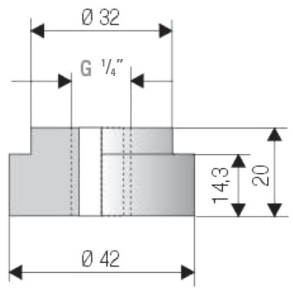

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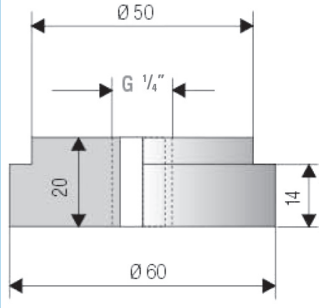

Art. No. 270.180

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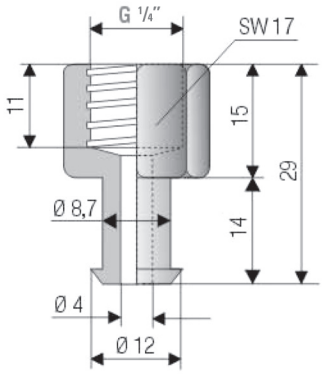
G¼" IG



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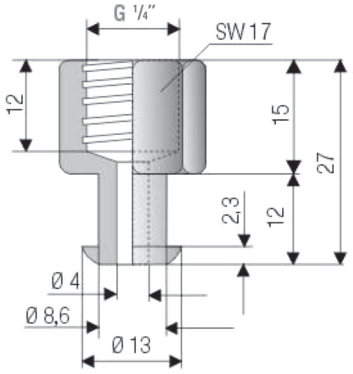

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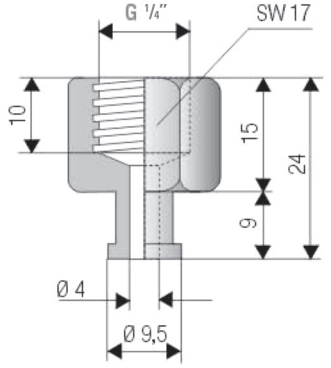

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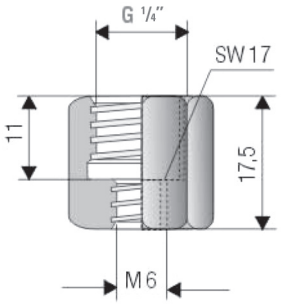
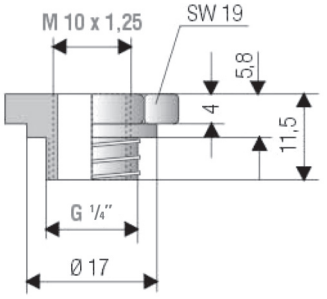


Art. No. 270.308

M 10 × 1,25 IG



Art. No. 270.090

Circulating Water Temperature Control System

Hydrotherm II-Temperatures to 250°F

Mokon's Hydrotherm Circulating Water Temperature Control System
is engineered to improve accuracy, reliability of operation and increase output. The Hydrotherm has the highest quality components and construction materials in the industry. The system's non-ferrous and stainless steel piping and connections do not rust or contaminate water.

The Hydrotherm surpasses all competitive systems by providing stainless steel as the main component for wetted surfaces. The Hydrotherm's stainless steel components include a stainless steel pump, housing, impeller, heater canister and pump suction manifold.

All Hydrotherm systems meet NFPA 79 (National Fire Protection Association) electrical safety standards and come standard with a UL 508A-labeled electrical sub-panel. All of these features and more, combined with our extended warranty, make the Hydrotherm the best choice for delivering precise and accurate temperature control.

CIRCULATING WATER TEMP. CONTROL SYSTEM

Features and Benefits

- Stainless steel construction (wetted surfaces)
- Compact and portable
- Microprocessor-based controller
- Control panel with indicating lights for mode of operation
- Suction and discharge pressure gauges
- Improved energy efficiency, small hold-up volume and energy-efficient heater design
- Easy access cabinet
- UL 508A labeled electrical sub-panel
- Meets NFPA 79 electrical safety standards

Specifications

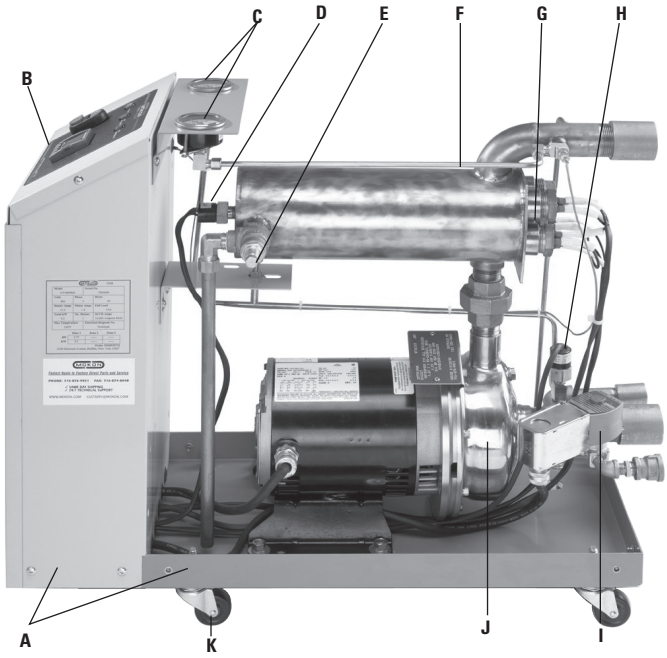
Model	Pump	Flow Rate & Pressure	Cabinet Dimensions (L×W×H)*9kW	Process Connection	Supply/Drain
HT2HY9KW	¾ hp	25 gpm @ 26 PSI	27" × 11" × 24"	1.25" NPT	½" NPT
HT2HX9KW	1 hp	30 gpm @ 32 PSI	27" × 11" × 24"	1.25" NPT	½" NPT
HT2HR9KW	1-½ hp	40 gpm @ 32 PSI	27" × 11" × 24"	1.25" NPT	½" NPT
HT2HW9KW	2 hp	50 gpm @ 32 PSI	27" × 11" × 24"	1.25" NPT	½" NPT
HT2HN9KW	3 hp	60 gpm @ 34 PSI	27" × 11" × 24"	1.25" NPT	½" NPT

*Hydrotherm Systems are available in a variety of voltages and capacities. Please contact DME for more information.

Hydrotherm II-Temperatures to 250°F

Standard Features

A Hybrid-epoxy, powder-coated cabinetry (14ga. base/16 ga. electrical enclosure)
B Microprocessor-based controller in easily accessible control panel
C Suction and discharge pressure gauges
D High-temperature safety shut-off switch
E Pressure-relief valve
F Horizontal stainless steel heater canister
G Copper heating elements mounted in back of canister for easy access
H Low pressure, safety shut-off switch
I Solenoid cooling valve
J Stainless steel pump
K Casters for easy portability
L Automatic air purge (not shown)
M NFPA 79-and UL 508A-labeled electrical sub-panel (not shown)



E+ Energy Savings Package

Options

Mokon offers a variety of options and accessories to meet specific customer needs. Typical requests include audible and visual alarms, solid-state heater relay, emergency stop, process fluid purge, high/low heat switching, thermometers, power cord,
7-day/24-hour timer, valved process bypass, remote set point and retransmission, and other voltages and wattages. Please contact us for more information.

E+ Energy Savings Package

- Insulated heater canister reduces heat loss by 60%
- 4–20mA PID control matches output to process demand
- SCR switching for faster response and extended heater life
- Forced ventilated cabinet extends electrical component life

Our engineers will also custom design systems to meet specific process requirements. For more information on Mokon's Hydrotherm or other products call DME today.

Product Testing & Warranty

All Mokon Temperature Control Systems are qualified for service by rigid, simulated field tests, and are 100% factory calibrated and run tested. Mokon offers these extended warranties as standard on the Hydrotherm system:

- 3 years on system
- 5 years on microprocessor controller and safeties
- Lifetime seals on piping and canister

Circulating Water Temperature Control System

Duratherm HTP-Temperatures to 300°F

Mokon's Duratherm HTP Circulating Water Temperature Control System maximizes performance with temperatures up to 300°F (149°C) and pressures up to 70 PSI. The Duratherm design features an advanced heating canister and stainless steel diverter, which create a forced flow path for higher heat transfer rates.

Designed for the most restrictive of processes or those requiring higher fluid temperature or pressure, the HTP System adds a cast iron pump to the Duratherm design, resulting in the highest temperature and pressure capabilities available.

All Duratherm Systems meet NFPA 79 (National Fire Protection Association) electrical safety standards and come standard with a UL 508A-labeled electrical sub-panel. All of these features and more, combined with an extended warranty, make the Duratherm an easy choice for delivering precise and accurate temperature control.

Features and Benefits

- Single and dual zone configurations
- Compact and portable
- Ideal for restrictive process and high temperature water applications
- Cast iron pump with brass impeller and carbon ni-resist seal
- Horizontal stainless steel canister
- Small hold-up volume and energy-efficient heater design
- Microprocessor-based controller
- UL labeled electrical sub-panel
- Meets NFPA 79 electrical safety standards

Specifications

Model	Pump	Flow Rate & Pressure	Process Connection	Drain/Supply Connection	Dimensions (L×W×H) *9KW	Shipping Weight
HTPDB9KW	1½ hp	25 GPM up to 60 PSI	1"	1"	28" × 16" × 25"	150 lbs.
HTPDC9KW	2 hp	40 GPM up to 60 PSI	1½"	1"	32" × 17" × 27"	160 lbs.
HTPDF9KW	3 hp	60 GPM up to 60 PSI	1½"	1"	32" × 17" × 27"	170 lbs.
HTPDE9KW	5 hp	80 GPM up to 70 PSI	1½"	1"	32" × 17" × 27"	185 lbs.
HTPDD9KW	7½ hp	100 GPM up to 70 PSI	2"	1"	32" × 17" × 27"	250 lbs.
HTPDA9KW	10 hp	120 GPM up to 70 PSI	2"	1"	38" × 17" × 28"	300 lbs.

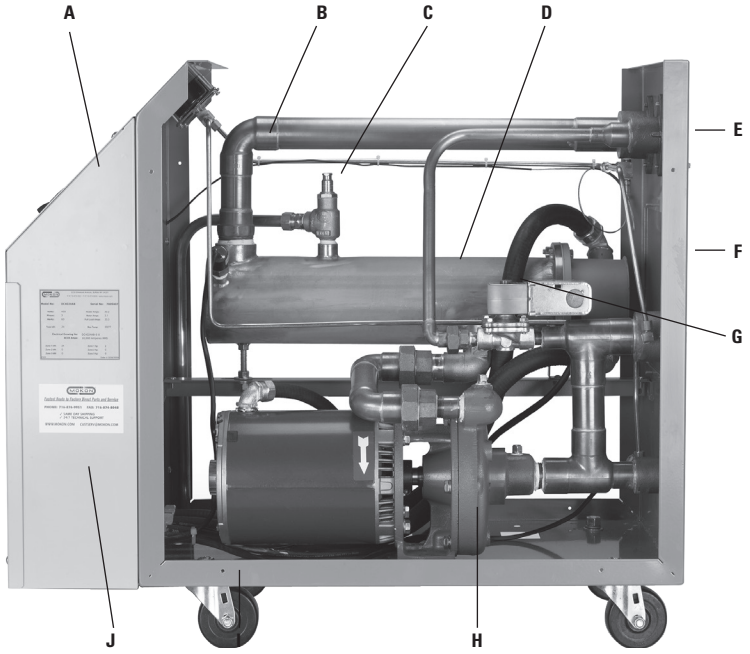
*Duratherm Systems are available in a variety of voltages and capacities. Please contact DME for more information.

Circulating Water Temperature Control System

Duratherm HTP-Temperatures to 300°F

Standard Features

A Microprocessor-based controller in easily accessible panel
B Fluid high-temperature safety shut-off switch
C Pressure-relief valve
D Horizontal stainless steel heater canister with unique turbulent flow diverter
E Cast brass fluid connections securely mounted to cabinet
F Removable panel for easy access to heater (not shown)
G Solenoid cooling valve
H Cast iron pump for temperatures up to 300°F (149°C)
I Heavy-duty removable casters for fixed location or portability
J Powder-coated finish
K Low pressure, safety shut-off switch (not shown)
L NFPA 79-and UL-labeled electrical sub-panel (not shown)



Product Testing & Warranty

All Mokon Temperature Control Systems are qualified for service by rigid, simulated field tests, and are 100% factory calibrated and run tested. Mokon offers these extended warranties as standard on the Duratherm System:

- 3 years on system
- 5 years on microprocessor controller and safeties
- Lifetime on seals, piping and canister

Hydratherm/Duratherm Molding Conditions Sheet

Plastics Injection, Compression, Vacuum Forming, Rim Applications

ONLINE FORM

Date: _____ Account Number: _____ Contact: _____

Company: _____ Phone#: _____

Address: _____ Fax#: _____

_____ E-mail: _____

End User Location: City/St _____ Country _____ Elevation _____

Equipment Ambient Conditions : _____

Type of Molding Machine: _____ Size (Tons): _____

Dimensions of Mold (L × W × H): _____ (inches)

Mold Weight: _____ Mold Material: _____

Process (Control) Temperature Required: _____ Preheat Time Required: _____

Insulation (if any): _____

Hydraulic Cooling Required? Yes _____ No _____ If yes, how much _____?

Temperature Control Medium (Water, Oil, Water/Glycol Mix): _____

Number of Zones Heating/Cooling: _____

Coring or Cooling/Heating Lines:	Zone 1	Zone 2	Zone 3	Zone 4
Inlet: Quantity of Lines				
Sizes of Lines				
Outlet: Quantity of Lines				
Sizes of Lines				

ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq

Material Molded: _____ End Product: _____

Shot Weight: _____ Shot Cycle Time: _____

Power: _____ Volts _____ Phase _____ Hertz

Control Requirements: Standard Microprocessor _____ Other (Brand) _____

Control Capabilities: Remote Set Point/Retransmission Type _____ RS-485 _____

Programmable _____ Other _____

_____

Prior Equipment/Comments: _____

_____

_____

Thank You For Providing This Information. Please Return The Completed Sheet To DME By Fax (248-544-5113) or E-mail (DME@dme.net)

A

Superior Features:

- Closed Tank Design. This unique feature improves operating costs, eliminates downtime due to contaminates entering the system and eliminates problems associated with low or uncertain city water pressure, evaporation and overflow.
- Stainless Steel Evaporating Tank. This corrosion-resistant tank allows for years of quality operation.
- Sturdy Cabinet Construction. Each unit is constructed on a rugged, heavy-duty steel base frame. The cabinet and access panels are manufactured from Phos Coat galvanized steel and finished with a tough chemical and weather-resistant polyester powder coat. Custom color finish available upon request.
- Quality Assurance. Each unit goes through a series of tests to pass rigid standards before they leave the plant.
- Warranty. One year parts and components and Five years warranty on the compressor.

PORTABLE WATER CHILLERS

Refrigeration System

The refrigeration system is the finest in performance, capacity and design. This system is manufactured completely in the plant using the industry-respected Copeland compressor. All condenser coils are formed and assembled in-house for better quality assurance and design flexibility. The control panel has been engineered for simplicity using only the finest U.L. approved components. All 8-ton and larger units are equipped with multi-compressor systems that will operate independently as the load requires, resulting in energy savings.

Electrical System

The systems are wired 208/230 single phase and 208/230 or 440 three phase. Any electrical system can be engineered on request, including 50Hz systems. The control panel can be wired for a 24 or 110 volt system.

Coil-in-Tank Design

Every chiller features an exclusive stainless steel coil-in-tank design that eliminates problems associated with tube-in-tube heat exchangers, such as coil rupture due to freeze-up. Head pressure on the refrigeration system is not affected by "pressure shock" due to the high temperature return water. The tough, 40 gallon, 16-gauge, 304 stainless steel construction ensures years of quality operation.

	Portable System					Vertical Stationary System					
Part Number	**RTP201**	**RTP303**	**RTP403**	**RTP503**	**RTP603**	**RTS803**	**RTS1003**	**RTS1203**	**RTS1603**	**RTS2003**	**RTS2403**
Nominal Capacity	**2 Ton**	**3 Ton**	**4 Ton**	**5 Ton**	**6 Ton**	**8 Ton**	**10 Ton**	**12 Ton**	**16 Ton**	**20 Ton**	**24 Ton**
BTU's Per Hour	24,000	36,000	48,000	60,000	72,000	96,000	120,000	144,000	192,000	240,000	288,000
Reservoir Capacity	40 gal.	40 gal.	40 gal.	40 gal.	40 gal.	40 gal.	40 gal.	40 gal.	80 gal.	80 gal.	80 gal.
Cabinet Size	28 x 60 x 53	28 x 60 x 53	28 x 60 x 53	28 x 60 x 53	39 x 60 x 55	30 x 54 x 72	30 x 56 x 72	39 x 56 x 74	74 x 74 x 72	74 x 74 x 72	74 x 94 x 74
Weight	330#	350#	400#	425#	525#	570#	625#	650#	1500#	1600#	1800#
Voltage	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230
460 optional	1 phase	3 phase	3 phase	3 phase	3 phase	3 phase	3 phase	3 phase	3 phase	3 phase	3 phase
RL AMPS	22	18	23	24	24	43	52	52	82	90	74
Compressor	2 HP	3 HP	4 HP	5 HP	6 HP	8 HP	10 HP	12 HP	16 HP	20 HP	24 HP
Water Discharge	1" NPT	1" NPT	1" NPT	1" NPT	1" NPT	1" NPT	1" NPT	1" NPT	1½" NPT	1½" NPT	1½" NPT
Water Return	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"
Water Cooled	Please Call for Quote										

The "Cheater"—Chiller/Heater Combination Mold Temperature Controller

- One machine replaces the need for both a chiller and a heater
- Single unit allows 30°F–190°F with less than a ±0.2° F variance
- No external water source needed
- Instantaneous changeover for heating and cooling

CHILLER-HEATER COMBO

Great For All Electric Presses!

Models OTC 14 to OTC 1

Part Number	OTC 14	OTC 13	OTC 12	OTC 34	OTC 1
Lbs./Hr. Polyethylene[1]	5	7	11	20	24
Lbs./Hr. Polystyrene[2,3]	8	12	1	33	40
Heater (Kw)	1.5	1.5	1.5	3	3

Models OTC 112 to OTC 712

Part Number	OTC 112	OTC 2	OTC 3	OTC 5	OTC 712
Lbs./Hr. Polyethylene[1]	42	52	87	136	200
Lbs./Hr. Polystyrene[2,3]	70	86	144	225	325
Heater (Kw)	3	4	4	4	4

1 Polyethylene as a plastic material has a high "heat of fusion" (heat required for change of state from a liquid to a solid) and thus requires more cooling. Capacities are at 55°F leaving water temperature to mold and at 100°F ambient.
2 Polystyrene has no heat of fusion and thus requires less cooling. Capacities are at 55°F leaving water temperature to mold and at 100°F ambient.
3 For leaving water temperature to mold less than 55°F deduct 20% of capacity for each 10°F below 55°F. For example at 45°F the capacity would be .8 times the above capacities in chart.

More Chiller/Heater Combo specifications on next page

Specifications for Models OTC 14 to OTC 1

Model	OTC	14	13	12	34	1
Compressor	Cap.[2] (kW)	.6	.8	1.3	2.3	2.8
	Cap.[2] (BTU/HR)	2000	2890	4570	7940	9550
	Cap.[2] (Tons)	.2	.25	.4	.7	.8
	HP	.25	.33	.5	.75	1
	Type[3]	H	H	H	H	H
Process Pump[4]	HP	⅓	⅓	⅓	⅓	⅓
	GPM	2	2	2	4	4
	PSI	65	65	65	65	65
Connection Size	(inches)	½"	½"	½"	½"	½"
Std. Heater Size[5]		1.5	1.5	1.5	3	3
Full Load Amps.[6]	115/160	12.9/25.4	15.9/28.4	20.6/33.1	27/60.3	N/A
(without heat/with heat)	208–230/1/60	N/A	7.9/14.2	10.2/16.5	15.4/28.2	17.8/30.3
	208–230/3/60	N/A	N/A	N/A	N/A	13.5/26
	460/3/60	N/A	N/A	N/A	N/A	6.6/12.9
Condensing	Medium	Air	Air	Air	Air	Air
Refrigerant	Type	134A	134A	134A	134A	134A
Pat. Refrig. Circuit[7]	OPTITEMP	YES	YES	YES	YES	YES
Reservoir Cap.	Gallons	2	2	2	2	2
Temp. Range[8]	°F	30–190	30–190	30–190	30–190	30–190
Temp. Stability[9]	°F	+/– 0.2	+/– 0.2	+/– 0.2	+/– 0.2	+/– 0.2
Dimensions[10]	Height	22.5	22.5	22.5	22.5	22.5
(inches)	Width	15	15	15	25	29
	Depth	20	20	20	25	32
Weight	(pounds)	175	175	200	250	250
Capacity[11] P.E.	(lbs./hr.)	5	7	11	20	24
Capacity[11] P.S.	(lbs./hr.)	8	12	19	33	40

Specifications for Models OTC 12 to OTC 712

Model	OTC	112	2	3	5	712
Compressor	Cap.[2] (kW)	5.0	6.0	10.1	16.0	25
	Cap.[2] (BTU/HR)	17000	20700	34600	54400	89600
	Cap.[2] (Tons)	1.4	1.7	2.9	4.5	6.7
	HP	1.5	2	3	5	7.5
	Type3	H	H	H	H	H
Process Pump[4]	HP	⅓	1	1–½	1–½	2
	GPM	4	5	7	12	18
	PSI	65	45	55	53	62
Connection Size	(inches)	½"	1"	1"	1"	1–¼"
Std. Heater Size[5]		3	4	4	4	4
Full Load AMPS.[6]	115/160	N/A	N/A	N/A	N/A	N/A
(without heat/with heat)	208–230/1/60	21.5/34	28.5/45	45.4/62	47.2/64	N/A
	208–230/3/60	15.7/28.2	16.9/33.5	30.7/47.5	30.5/47	56.5/73
	460/3/60	7.4/13.6	9.5/17.8	15.1/23.4	14.1/22.4	22.8/31
Condensing	Medium	Air	Air	Air	Air	Air
Refrigerant	Type	134A	134A	134A	R–22	R–22
Pat. Refrig. Circuit[7]	OPTITEMP	YES	YES	YES	YES	YES
Reservoir Cap.	Gallons	2	3	2	2	4.5
Temp. Range[8]	°F	30–190	30–190	30–190	30–110	30–110
Temp. Stability[9]	°F	+/– 0.2	+/– 0.2	+/– 0.2	+/– 0.2	+/– 0.2
Dimensions[10]	Height	22.5	26.5	26.5	33	42.5
(inches)	Width	29	36	36	31	34
	Depth	32	36	36	46	46
Weight	(pounds)	260	395	500	550	750
Capacity[11] P.E.	(lbs./hr.)	41	52	87	136	200

(1) As a result of continuous improvement efforts, specifications are subject to change without notice or liability. (2) Capacity is based on 55°F LWT and 100°F ambient temperature. Capacities may be +/– 5% as reserved by compressor manufacturer. (3) Hermetic compressor used on this model. (4) Pump pressure is at pump outlet. Contact factory for optional pumps. (5) Contact factory for optional heater sizes. (6) Full load AMPS must be used for sizing disconnects and supply wiring. Contact factory for 50 Hz operation. (7) Features OPTITEMP INC. patented refrigeration circuit. No load to full load control! (8) Standard operating temperature range 30–110°F. 30–190°F with optional high-temp package and special materials of construction. Contact factory for availability of hi-temp package for OTC-5A and OTC-7.5A. Minimum recommended operating temperature of 48°F unless glycol is used. (9) Control is microprocessor-based digital P.I.D. control.
(10) Dimensions are approximate and include casters. (11) LBS./HR of cooling capacity based on polystyrene/polyethylene material at 55°F LWT.

Design Features:
The non-rusting FRP casing and basin, circular in shape, eliminates special installation requirements. Prevailing wind directions will not affect tower performance.

Casing:
Easy access through casing simplifies cleaning. Individual fiberglass panels are stainless steel bolted together for periodic washdown and general clean-up. The CTS FRP cooling tower is designed for durability and long life even under the most severe environmental weather conditions.

Fan Blades:
Aerodynamically designed propeller-type fan blades are used to conserve power and ensure quiet operations. CTS models T-25 through T-230 feature a factory-balanced ABS plastic blade. CTS models T-240 and above feature an all-aluminum alloy adjustable fan.

Fan Drive:
CTS models T-25 through T-2200 have direct-drive fan motors. CTS models T-2225 and larger feature a unique belt drive, designed to reduce noise levels, with optional gear drives.

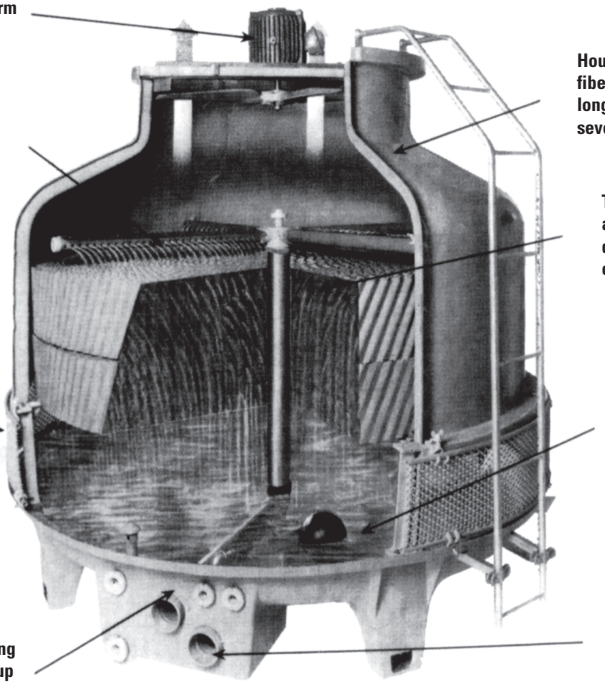
Water Distribution System:
CTS models T-25 through T-260 use an ABS plastic sprinkler with stainless steel shaft. CTS models T-270 and above use an aluminum alloy sprinkler head. Both types of sprinkler heads require little or no head pressure loss and minimum maintenance.

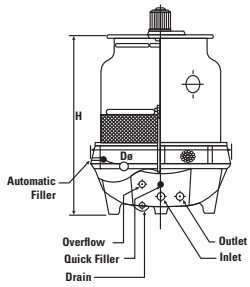
Inlet Louvers:
Non-rusting PVC plastic mesh provides easy access to sump while preventing foreign objects from entering water basin.

Ladder:
Provided for maintenance and inspection accessibility to fan and sprinkler systems. (Models T-240 and above.)

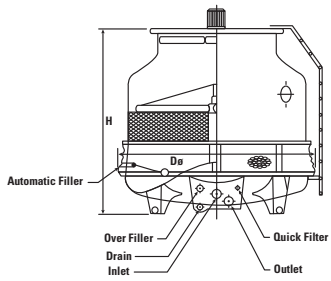
Fill Material:
Honeycomb heat-embossed PVC is formed to permit high heat transfer efficiency. The CTS fill is suitable for operation with inlet water temperatures of 125° F. For higher temperatures, contact DME for quote.

COOLING TOWERS

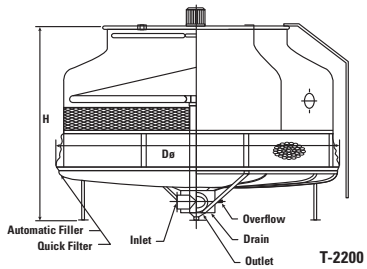




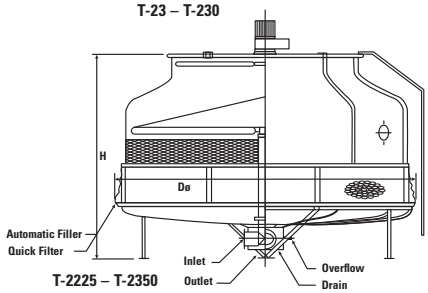
T-23 – T-230



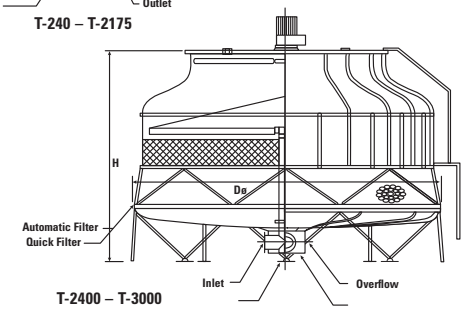
T-240 – T-2175



T-2200



T-2225 – T-2350

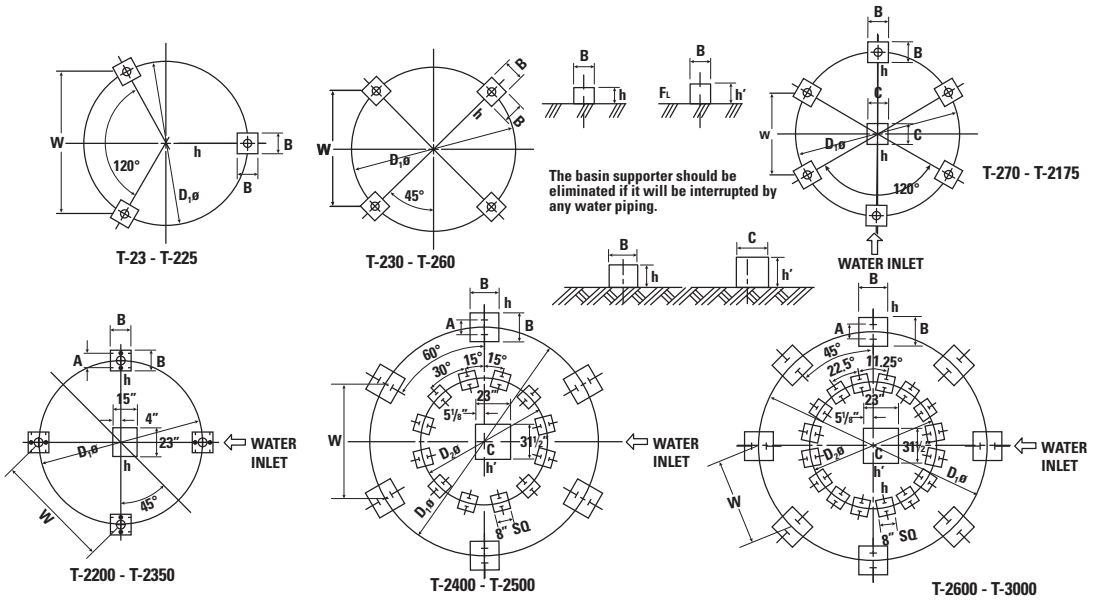


T-2400 – T-3000

PIPING:
T-23 – T-260
THREAD TYPE
T-270 – T-3000
IN & OUT: FLANGE TYPE
OTHERS: THREAD TYPE

T Model	Dimensions (In.)		Pipe Connections (In.)						Fan Motor (HP)	Fan Diameter (Inch)	Air Volume (CFM)	Nominal Water Flow (GPM)
	Height	Dia.	In	Out	O	Dr	Float	Q				
T-25	52	33½	1½	1½	1	¾	½	–	⅙*	19½	2118	15
T-28	56	33½	1½	1½	1	¾	½	–	⅙*	19½	2648	23
T-210	54	41¾	1½	1½	1	¾	½	–	¼*	26⅜	3531	30
T-215	59	46	2	2	1	1	½	–	¼*	26⅜	4767	44
T-220	63	54⅜	2	2	1	1	½	–	½**	30¼	6356	58
T-225	70 15/16	54⅜	2½	2½	1	1	½	–	¾***	30¼	7000	73
T-230	68⅜	62¼	2½	2½	1	1	½	–	1***	30¼	8100	88
T-240	74½	71⅝	2½	2½	1	1	¾	–	1½***	38¼	9800	118
T-250	74½	78¾	3	3	1	1	¾	–	1½***	38¼	11500	148
T-260	74 11/16	78¾	3	3	1	1	¾	–	1½***	46	14700	177
T-270	79⅜	85⅝	4	4	1	1	¾	–	1½***	46	17500	207
T-280	79⅜	85⅝	4	4	1	1	¾	–	2***	46	18900	237
T-2100	85 1/16	104⅜	4	4	1	1	1	–	3***	57⅞	24500	295
T-2125	87	120⅛	6	6	2	1	1	–	3***	57⅞	29060	369
T-2150	90	130	6	6	2	2	1	–	5***	68⅞	33260	446
T-2175	97⅞	130	5	5	2	2	1	–	5***	68⅞	40250	518
T-2200	117¾	148⅜	6	6	2	2	1¼	1¼	5***	68⅞	43760	592
T-2225	125⅝	148⅜	6	6	2	2	1¼	1¼	7½***	93	61270	656
T-2250	125⅝	148⅜	8	8	2	2	1¼	1¼	7½***	93	61270	737
T-2300	131⅞	174¾	8	8	2	2	1¼	1¼	10***	93	77020	883
T-2350	133½	188⅝	8	8	2	2	1¼	1¼	10***	93	77020	1036
T-2400	153⅛	203⅞	8	8	4	2	2	2	15***	117	91030	1190
T-2500	154 11/16	219⅝	10	10	4	2	2	2	15***	117	91030	1505
T-2600	171⅝	259⅞	10	10	4	2	2	2	20***	133⅛	125000	1777
T-2700	181 5/16	259⅞	10	10	4	2	2	2	20***	133⅛	125000	2101
T-2800	194 11/16	299¼	12	12	4	3	3	2	30***	141	175000	2370
T-3000	202½	299¼	12	12	4	3	3	2	30***	141	175000	3011

Electrical specifications: *110/220/1/60, 220/3/60, **110/220/1/60, 220/440/3/60, ***220/440/3/60 Tri-voltage fan motors (208-230-460-3-60) are available for ¾ HP and larger. Special order 50-cycle fan motors also available. Nominal flow is defined as rate of water cooled from 95° to 85°, with 75° wet bulb temperature.

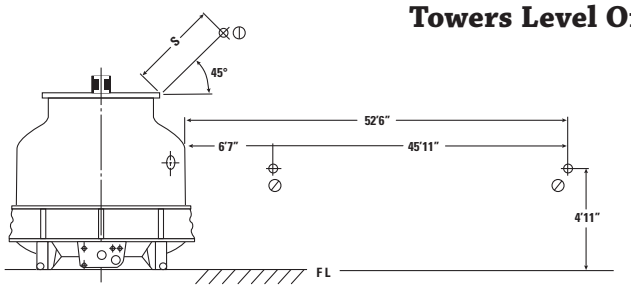


T Model	Weight (Lbs.)		Dimensions (In.)								Anchor Bolt		Qty (Pcs.)	Pump Head (Ft.)
	Dry	Operating	D1	W	B	A	h	h'	C	D2	Size (Inch)	Length (Inch)		
T-25	86	251	21⅝	18¾	8		6				½	4¾	3	5.0
T-28	93	262	21⅝	18¾	8		6				½	4¾	3	5.0
T-210	123	443	29½	25⅝	8		6				½	4¾	3	5.0
T-215	139	536	34⅝	30	8		6				½	4¾	3	5.3
T-220	190	719	44	38¼	8		6				½	4¾	3	5.6
T-225	227	887	44	38¼	8		6				½	4¾	3	5.6
T-230	253	1074	52½	37	8		6				½	4¾	4	6.0
T-240	369	1133	57⅞	40⅞	10		8				½	4¾	4	6.6
T-250	435	1313	66⅛	46¾	10		8				½	4¾	4	6.6
T-260	504	1472	66⅛	46¾	10		8				½	4¾	4	6.6
T-270	610	1555	69⅜	34½	10		8	9½	10		½	4¾	5	6.6
T-280	642	1588	69⅜	34½	10		8	9½	10		½	4¾	5	6.6
T-2100	887	2361	92½	46¼	12		12	14	12		⅝	8	5	8.2
T-2125	1025	2983	103⅛	51½	12		12	14	12		⅝	8	5	10.0
T-2150	1375	5731	112½	56¼	12		12	13½	16		⅝	8	5	10.0
T-2175	1569	5887	112½	56¼	12		12	13½	16		⅝	8	5	11.0
T-2200	1914	7612	132	93⅜	12	5⅛	12	16	23		⅝	8	8	11.0
T-2225	2112	7744	132	93⅜	12	5⅛	12	16	23		⅝	8	8	11.0
T-2250	2266	7854	132	93⅜	12	5⅛	12	16	23		⅝	8	8	12.0
T-2300	2823	9995	156⅛	110⅜	12	5½	12	16	23		⅝	8	8	12.0
T-2350	2996	10164	169⅛	119⅝	12	5½	12	16	23		⅝	8	8	13.2
T-2400	4776	14984	200¾	100⅜	20	5½	12	16	31½	114¼	¾	8	12	13.2
T-2500	5342	15550	216½	108¼	20	5½	12	16	31½	122	¾	8	12	13.2
T-2600	7401	23637	255⅛	97⅝	20	5½	12	16	31½	141¾	¾	8	16	16.4
T-2700	7848	24127	255⅛	97⅝	20	5½	12	16	31½	141¾	¾	8	16	18.2
T-2800	9636	26356	295¼	113	20	5½	12	16	31½	163½	¾	8	16	20.0
T-3000	10199	27359	295¼	113	20	5½	12	16	31½	163½	¾	8	16	20.0

Specifications subject to change without notice.

A

Sound Pressure Levels Of Cooling Tower Systems
Towers Level Of Measurement: dB



Note: The accuracy of measuring value is ±3 decibels

Remarks:
1. Point 1 is 45° extension of fan discharge.
2. Distance "S":
   (1) T Models 2125 & lower - 4'11"
   (2) T Models 2150 & above - fan diameter

Tower Model	T-25			T-28			T-210			T-215			T-220			T-225			T-230		
Measuring Pt.	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Scale A	62	59	48	63	58	47.5	64	59	48.5	69	66	53	69	66	53	70	67	57	73	67	59
Tower Model	**T-240**			**T-250**			**T-260**			**T-270**			**T-280**			**T-2100**			**T-2125**		
Measuring Pt.	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Scale A	77	70	59	77	70	59	79	73	64	81	75	66	82	76	67	79	71	60	84	74	64
Tower Model	**T-2150**			**T-2175**			**T-2200**			**T-2225**			**T-2250**			**T-2300**			**T-2350**		
Measuring Pt.	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Scale A	77	71	62	80	75	65	79	73	63	76	71	62	76	71	62	77	72	63	77	72	63
Tower Model	**T-2400**			**T-2500**			**T-2600**			**T-2700**			**T-2800**			**T-3000**					
Measuring Pt.	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
Scale A	79.5	74.5	65.5	79.5	74.5	65.5	77.5	72.5	63.5	77.5	72.5	63.5	78.5	74	65	80	75	66			

Tower Capacities													
Hot Water	**90°F**	**90°F**	**95°F**	**92°F**	**95°F**	**97°F**	**95°F**	**95°F**	**96°F**	**98°F**	**90°F**	**94°F**	**T Model**
Cold Water	**80°F**	**80°F**	**85°F**	**82°F**	**85°F**	**87°F**	**85°F**	**85°F**	**86°F**	**88°F**	**83°F**	**85°F**	
Wet Bulb	**65°F**	**70°F**	**70°F**	**72°F**	**75°F**	**75°F**	**77°F**	**78°F**	**80°F**	**82°F**	**75°F**	**75°F**	
GPM	17	12	20	13	15	18	12	11	10	11	15	16	T-25
	27	20	32	21	23	29	20	18	16	17	25	26	T-28
	34	25	39	27	30	35	25	23	20	23	31	32	T-210
	51	37	60	40	44	54	37	33	31	33	46	48	T-215
	68	49	80	53	58	72	49	45	41	44	62	64	T-220
	85	62	97	66	73	90	62	56	52	56	77	79	T-225
	101	75	119	80	88	108	75	68	63	68	93	96	T-230
	134	100	156	106	118	142	101	92	85	91	124	128	T-240
	168	127	195	134	148	178	127	116	108	115	155	159	T-250
	201	150	224	160	177	211	151	138	128	137	185	191	T-260
	236	176	262	188	207	251	176	160	150	160	218	224	T-270
	268	203	308	215	237	253	203	185	173	184	248	256	T-280
	335	250	382	266	295	356	252	230	213	228	309	319	T-2100
	420	316	480	235	369	446	316	289	270	289	388	400	T-2125
	504	383	574	405	446	534	383	353	328	350	466	479	T-2150
	588	441	676	471	518	611	444	407	377	404	541	558	T-2175
	669	509	774	542	592	712	512	469	440	469	621	640	T-2200
	757	559	885	595	656	803	559	503	468	503	696	717	T-2225
	838	625	970	666	737	889	630	574	533	569	772	798	T-2250
	1011	775	1175	800	883	1075	755	685	634	678	934	960	T-2300
	1176	889	1340	946	1036	1240	895	818	767	818	1087	1119	T-2350
	1349	1023	1540	1084	1190	1420	1023	930	871	932	1240	1278	T-2400
	1657	1301	1885	1377	1505	1763	1324	1226	1157	1233	1551	1604	T-2500
	2006	1526	2322	1625	1777	2137	1537	1406	1319	1406	1864	1919	T-2600
	2317	1819	2640	1928	2101	2469	1841	1700	1641	1711	2177	2242	T-2700
	2675	2035	3096	2166	2370	2849	2050	1875	1759	1875	2486	2559	T-2800
	3303	2616	3760	2762	3011	3300	2660	2484	2353	2499	3098	3201	T-3000

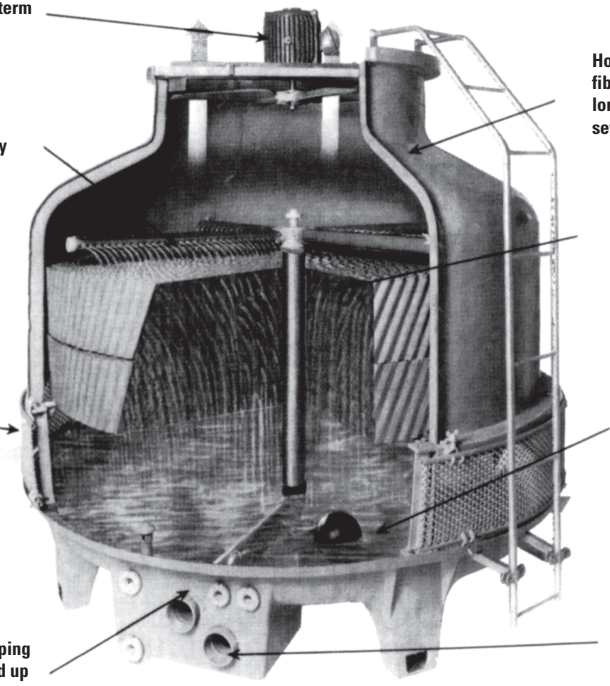
Cooling Towers

The fan motor is weatherproofed and totally enclosed, allowing for less noisy and more efficient long-term performance.

The sprinkler pipes are sturdy PVC material pierced with closely-spaced holes allowing thorough distribution of water in a rotating spray covering the entire surface of the filler.

The round design permits maximum air intake regardless of wind direction.

Efficient operation results from the smooth pumping of recirculated water through the stand pipe and up into the sprinkler pipes.



Housing panels and water basin are built of fiberglass-reinforced plastic ensuring rust-free, long-term performance even under the most severe environmental conditions.

The efficiently-designed PVC filler creates a surface area that allows for maximum dispersion of water and creates a superior cooling effect.

A large-capacity, durable water basin constructed from rustproof, fiberglass-reinforced plastic guarantees low maintenance and long-term operation.

A large diameter outlet pipe draws a constant supply of cooled water from the basin to serve the facility.

Cooling Tower Models and Key Specifications

Model #	H.P.	Motor Voltage/Phase	Ship Weight
T-25	1/6	110/220-1	165 lbs
T-28	1/6	110/220-1	175 lbs
T-210	1/4	110/220-1	200 lbs
T-215	1/4	110/220-1	225 lbs
T-220	1/2	110/220-1 or 220/440-3	260 lbs
T-225	3/4	220/440-3	295 lbs
T-230	1	220/440-3	340 lbs
T-240	1 1/2	220/440-3	425 lbs
T-250	1 1/2	220/440-3	490 lbs
T-260	1 1/2	220/440-3	570 lbs
T-270	1 1/2	220/440-3	660 lbs
T-280	2	220/440-3	710 lbs
T-2100	3	220/440-3	1000/200 lbs
T-2125	3	220/440-3	1095/220 lbs
T-2150	5	220/440-3	1350/260 lbs
T-2175	5	220/440-3	1580/290 lbs
T-2200	5	220/440-3	1900/320 lbs
T-2225	7 1/2	208/230/460/360	Call
T-2250	7 1/2	208/230/460/360	Call
T-2300	10	208/230/460/360	Call
T-2350	10	208/230/460/360	Call
T-2400	15	208/230/460/360	Call
T-2500	15	208/230/460/360	Call
T-2600	20	208/230/460/360	Call
T-2700	20	208/230/460/360	Call
T-2800	30	208/230/460/360	Call
T-3000	30	208/230/460/360	Call

A

Inhibited Ethylene Glycol

Ethylene Glycols are used in applications involving secondary cooling and heat transfer, providing freeze and burst protection. Plain water and antifreeze-type products do not have the proper inhibitor package for these heavy industrial uses.

Compared with inhibited glycols, uninhibited glycols oxidize in the presence of air and heat, forming acids. These acids can be corrosive to the metal in a system. Inhibited glycols neutralize the acids formed and
thus protect against corrosion.

Applications:

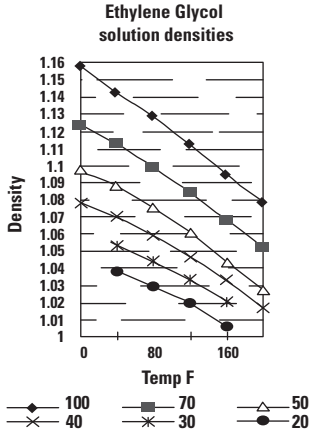
Ethylene Glycol Inhibited is almost odorless, easily mixes with water, and is moderately toxic.

Ethylene Glycol Inhibited is effective
from –60° to 250°F.

Proper concentration is a function of the lowest anticipated temperature. It is recommended to provide protection about 5° lower that the lowest anticipated temperature. However, for best corrosion protection do not go below 30% by volume.

Ethylene Glycol Inhibited	
Part Number	**Container Size**
ELG2-55	55Gal.

ETHYLENE GLYCOL



Uninhibited Ethylene Glycol

UNINHIBITED ETHYLENE GLYCOL

- Pure ethylene glycol circulator fluid, no additives
- Guaranteed analysis by Shell
- For use from –40° to +250°F (dilute)
- Good rust preventative properties
- Non-corrosive, will not build-up
- High flashpoint, +240°F
- Shipped from stock
- Compare our quality, compare our price!

Shell® Brand Uninhibited Ethylene Glycol	
Part Number	**Container Size**
ELG55	55 Gal.

Heat Transfer Fluid

Therminol XP heat transfer fluid is an extremely pure white mineral oil which provides reliable heat transfer from 0° to 600°F. Performance features of Therminol XP include:

- Low Fouling – The purity of Therminol XP minimizes fouling as a result of oxidation and degradation of the fluid, provided proper attention is given to system design and operation within the maximum bulk and film temperatures specified.
- Practically Non-Toxic – As an indicator of purity, Therminol XP meets FDA specifications defined in 21 CFR 172.878 and requirements of United States Pharmacopeia (USP) and National Formulary (NF).
- Thermal Stability – Therminol XP is stable to 600°F. Users can expect many years of reliable, trouble free operation, even when operating continuously at the recommended maximum temperature of 600°F.
- Environmentally Friendly – Therminol XP has outstanding regulatory status for those seeking heat transfer fluids which have minimum environmental reporting requirements.

Therminol XP is used in a wide variety of industries, such as:

- Plastics molding equipment
- Pharmaceuticals
- Specialty chemicals
- Laundries

Appearance		Colorless, odorless liquid
Composition		White mineral oil, USP/NF
Flashpoint (ASTM D-92)		182°C (360°F)
Fire Point (ASTM D-92)		196°C (385°F)
Autoignition Temperature (ASTM D-2155)		324°C (615°F)
Kinematic Viscosity at 40°C		23.7 mm^2/s (cSt)
at 100°C		4.06 mm^2/s (cSt)
Density at 25°C		875 kg/m^3 (7.30 lb/gal)
Specific Gravity (60°F/60°F)		0.882
Coefficient of Thermal Expansion at 200°C		0.000892/°C (0.000495/°F)
Average Molecular Weight		350
Pour Point		–29° C (–20°F)
Pumpability at 2000 mm^2/s (cSt)		–20°C (–4°F)
at 300 mm^2/s (cSt)		–1°C (30°F)
Minimum Temperatures for		
Fully Developed Turbulent Flow (Re = 10000)		
10 ft/sec, 1-in tube		72°C (162°F)
20 ft/sec, 1-in tube		51°C (123°F)
Transition Region Flow (Re = 2000)		
10 ft/sec, 1-in tube		30°C (85°F)
20 ft/sec, 1-in tube		17°C (63°F)
Boiling Range	10%	332°C (630°F)
	90%	416°C (780°F)
Normal Boiling Point		358°C (676°F)
Heat of Vaporization at Maximum		
Use Temperature 315°C		214 kJ/kg (91.9 Btu/lb)
Optimum Use Range		–20°C to 315°C (0°F to 600°F)
Maximum Film Temperature		330°C (625°F)
Pseudocritical Temperature		542°C (1007°F)
Pseudocritical Pressure		15.2 bar (220 psia)
Pseudocritical Density		280 kg/m^3 (17.5 lb/ft^3)
Vapor Pressure, psia @		
200°F		0.0005
300°F		0.003
400°F		0.147
500°F		0.967
600°F		4.72

HEAT TRANSFER FLUID

55 Gallon Drum

Therminol® XP

Part Number	Container Size
HTFXP55	55 Gallon

Shipping Weight: 465 Lbs

Strainer for Water Applications

The Thompson Strainer

- **Easily Removable Filter Lid**
- **Grade 5 Bolts/Nuts and Stainless Steel Washers**
- **Outlet Pressure Gauge Port**
- **Inlet Pressure Gauge Port**
- **Debris Flush Port**
- **High-capacity, high-efficiency stainless steel strainer**
- **For Cooling Tower and Chiller Water applications (full flow and sidestream)**

The Thomson Strainer has a unique design: as water enters the bottom of the strainer housing and flows upward, heavier debris and particulate is accelerated downward, away from the conical screen, into the large debris reservoir at the base of the strainer. The particulate is then flushed from the reservoir via the debris flush port. Due to the large amount of screen surface area, all models operate with less than a 1-PSI pressure loss at maximum flow when clean. The strainers are available with a wide variety of screen mesh options, ranging from large perforated hole-openings down to approximately 50-micron.

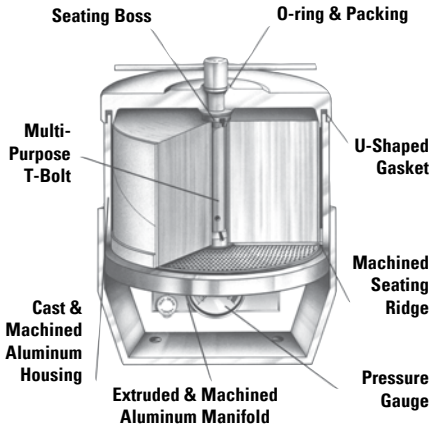
Please specify mesh size! (16–200)

Model Number	Inlet/Outlet Size	Recommended Maximum GPM	Maximum PSI Pressure	Unit Weight (lbs.)
MLS2	2″	100	125	13
MLS3	3″	200	125	27
MLS4C	4″	350	125	60
MLS4B	4″	350	150	60
MLS6	6″	750	150	125
MLS8	8″	1300	150	230
MLS10	10″	2000	150	400

Filtration System

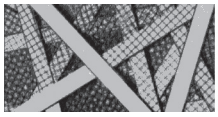
The Filtroil Filtration System:

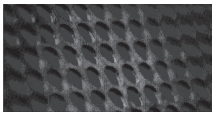
- Extends the life of your hydraulic fluids
- Drastically reduces waste oil disposal costs
- Reduces machine hydraulic repairs 25 to 35%
- Cools and cleans oil system giving smooth machine operation
- Increases equipment availability and uptime
- Provides significant economic payback
- Helps comply with waste oil laws, regulations and guidelines
- Improves repeatability



Quantity of oil in machine	**BU50** up to 150 gal.	**BU100** up to 325 gal.	**BU200** up to 450 gal.	**BU400** up to 100 gal.	**BU1600** over 1000 gal.
Oil (ISO) cleanliness	16/14/11 or better	16/14/11 or better	16/14/11 or better	16/14/11 or better	16/14/11 or better
Replacement element (change every 2,000 hours or 3 months of operation)	**50E**	**100E**	**200E**	(2) **200E**	(8) **200E**
Replacement gasket set (change once a year)	**50PS**	**100PS**	**200PS**	(2) **200PS**	(8) **200PS**
Special element (water removal)	**50ME**	**100ME**	**200ME**	(2) **200ME**	(8) **200ME**

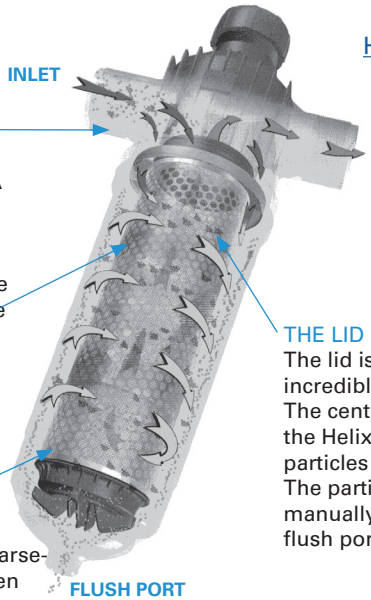
Helix Screen Water Filter





Miller Leaman Helix Screen Water Filters are available in three different sized models: 2", 2" Super and 3". The filters can be installed in any orientation; however, it is preferable to install them in the inverted position (3/4" flush port at bottom). This helps the filtration system work at its best. As water enters the filter housing, a high-velocity centrifugal action occurs, spiraling heavier particles (sediment, scale, etc.) away from the screen cartridge, down to the base of the filter. These accumulated particles are then flushed from the filter via the 3/4" flush port connection at the base of the filter (valve not included).

HELIX SCREEN WATER FILTER



THE BODY
The body contains one inlet and two outlet connections, allowing the filler to be installed at either 90 or 180 degrees. A threaded cap is supplied with the filler to terminate the outlet port not being used. Inlet/outlet connections are available in NPT or Victaulic. The body contains inlet and outlet pressure gauge ports {gauges not included) for monitoring the pressure differential across the filter screen which determines when the screen cartridge needs to be removed for maintenance.

THE CLOSURE
Manufactured in Type 316 stainless steel, the quick-release clamp assembly is strong and reliable. No tools are necessary to remove the clamp and filler cover when maintenance is required.

THE SCREEN
Available with a variety of stainless steel screen sizes from coarse-perforated material to a fine mesh. The two-dimensional screen filter is ideally suited for removal of hard, non-organic particles such as sand. Standard screen material is Type 316.

THE LID
The lid is injection-molded, using an incredibly strong polyamide material. The centrifugal action, created by the Helix Element, spirals heavier particles down to the base of the filter. The particles are then flushed, either manually or automatically, from the 3/4" flush port at the lowest point in the lid.

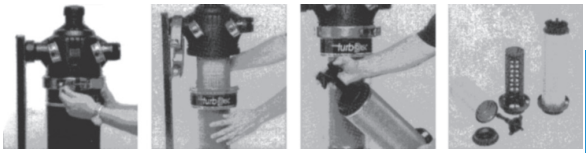
How It Works

1. Dirty water enters the filter housing through the inlet connection.
2. As dirty water passes through the Helix Element, the water starts to spin at high velocity. This centrifugal action spins the particles away from the screen, minimizing manual cleaning frequency.
3. As particles are spun down to the base of the filter, they are flushed via the 3/4" female threaded flush port connection.
4. The dirty water passes from the outside to the inside of the stainless steel screen. The screen captures the remaining light and fibrous contaminants in the water.
5. After passing through the screen, the filtered water flows upward and exits the filter through one of the outlets. The outlet not being used is terminated with a threaded cap.

Unique Features

- Centrifugal cleaning action minimizes maintenance
- Large screen surface area with maximum open area
- Particles can be flushed while filter is in operation
- Several Type 316 stainless steel mesh (and perforated) options available
- Durable, corrosion-resistant, injection-molded housing
- Easily removable, quick-clamp lid assembly
- Pressure gauge ports molded into

See next page for technical specs!



Technical Data

Flow Rates for a Single Filter Housing
2"/100 GPM max.*
2" Super/100 GPM max.*
3"/200 GPM max.*
Multiple pods are manifolded for higher flow rates

* Maximum flow rates should be derated for high solids loading, particularly for finer mesh sizes.

Pressure Rating

All units rated to 125 PSI

Temperature Rating
All units rated to 140° F

Inlet/Outlet Configurations

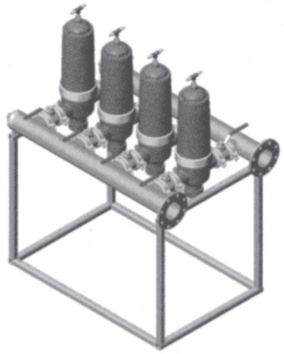
2" and 3" models available with NPT and/or Victaulic inlet/outlet connections
In-line and 90-degree configurations standard (filter is supplied with a cap for outlet port not being used)

Construction Materials

Housing: Polyamide
Screen: Stainless Steel (Type 316)
Gaskets: EPDM
Filter Pod Clamp: Stainless Steel (Type 316)

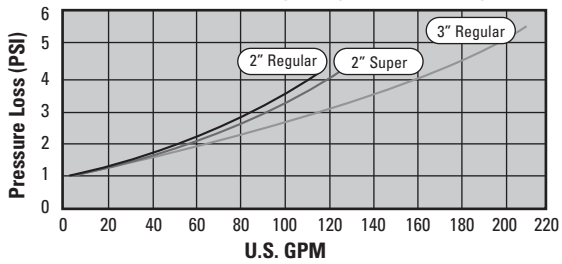
Screen Sizes Available

16, 30, 40, 50, 60, 80, 100, 120, 150, 200 1/4" perforated, 1/8" perforated, 5/64" perforated, 1/16" perforated (Other sizes available by special order)



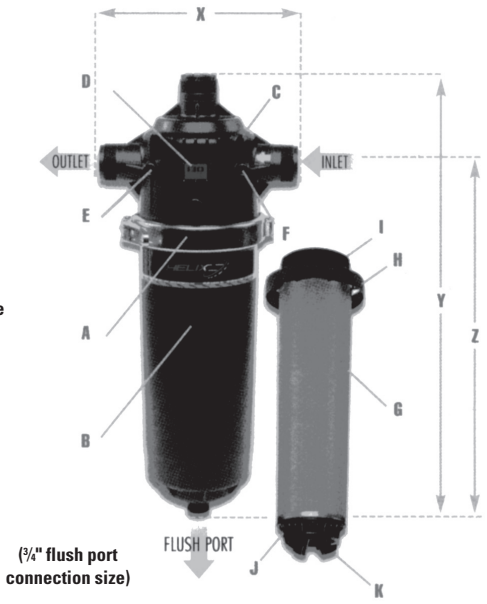
Please contact your DME about modular capabilities.

Pressure Loss Through Single Filter Housing



Filter Components

A. Band-Clamp Assembly
B. Removable Filter Lid
C. Filter Body
D. Mesh/Micron Data Plate
E. Outlet Gauge Port (Gauge not Included)
F. Inlet Gauge Port (Gauge not Included)
G. Filter Screen Cartridge
H. Helix Element
I. O-Ring Seal
J. Cartridge Cover Plate
K. Threaded Wing Bolt
X. See table below
Y. See table below
Z. See table below

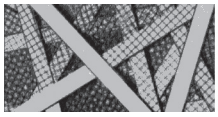


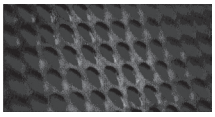
(¾" flush port connection size)

Part Number	Model Type	Inlet/Outlet Size & Type	Filter Surface Area (Sq. In.)	Max. Flow (GPM)	(Refer to Diagram Above)		
					X	Y	Z
HS2NA*	Regular	2″/NPT	186	100	12–1/8″	24–1/8″	18″
HS2SA*	Super	2″/NPT	263	100	12–1/8″	28–3/4″	22–15/16″
HS3NA*	Regular	2″/NPT	263	200	13–1/4″	30″	22–15/16″
HS2NW*	Regular	2″/Victaulic	186	100	12–1/8″	24–1/8″	18″
HS2SW*	Super	2″/Victaulic	263	100	12–1/8″	28–3/4″	22–15/16″
HS3NW*	Regular	2″/Victaulic	263	200	13–1/4″	30″	22–15/16″

* Please specify screen size when ordering. (e.g: HS2NA100 is a 2″ NPT filter with a 100 mesh screen)

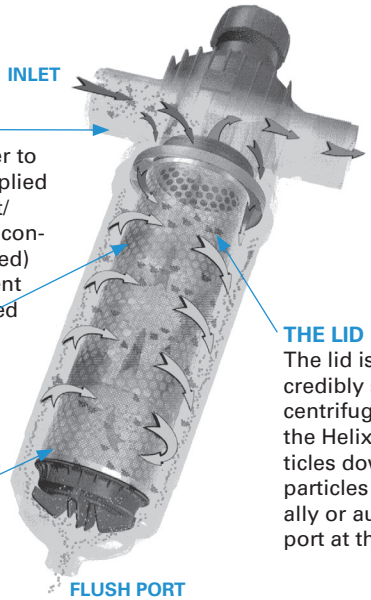
Helix Disc Water Filter





Miller Leaman Helix Disc Filters are available in three different sized models: 2", 2" Super and 3". The filters can be installed in any orientation; however, it is preferable to install them in the inverted position (3/4" flush port at bottom). This helps the filtration system work at its best. As water enters the filter housing, a high-velocity centrifugal action occurs, spiraling heavier particles (sediment, scale, etc.) away from the disc cartridge, down to the base of the filter. These accumulated particles are then flushed from the filter via the 3/4" flush port connection at the base of the filter (valve not included).

HELIX DISC WATER FILTER



THE BODY
The body contains one inlet and two outlets, enabling the filter to be installed at either 90 or 180 degrees. A threaded cap is supplied with the filter to terminate the outlet port not being used. Inlet/outlet connections are available in NPT or Victaulic. The body contains inlet and outlet pressure gauge ports (gauges not included) for monitoring the pressure differential across the filter element which determines when the disc cartridge needs to be removed for maintenance.

THE CLOSURE
Manufactured in Type 316 stainless steel, the quick-release clamp assembly is strong and reliable. No tools are necessary to remove the clamp and filter cover when maintenance is required.

THE DISC
The three-dimensional disc is ideal for filtering hard particles (such as sediment and scale) and soft fibrous material (such as algae, bugs, cottonwood seed, etc.). The color-coded discs are available in a variety of micron sizes.

THE LID
The lid is injection molded, using an incredibly strong polyamide material. The centrifugal action, created by the Helix Element, spirals heavier particles down to the base of the filter. The particles are then flushed, either manually or automatically, from the 3/4" flush port at the lowest point in the lid.

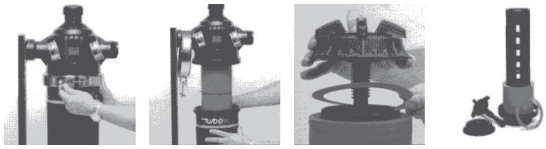
How It Works

1. Dirty water enters the filter housing through the inlet connection.
2. As dirty water passes through the Helix Element, the water starts to spin at high velocity. This centrifugal action spins the particles away from the disc media, minimizing manual cleaning frequency.
3. As particles are spun down to the base of the filter, they are flushed via the 3/4" female threaded flush port connection.
4. The dirty water passes from the outside to the inside of the discs. The grooves, molded into the surface of the three-dimensional discs, trap the remaining contaminants in the water.
5. After passing through the discs, the filtered water flows upward and exits the filter through one of the outlets. The outlet not being used is terminated with a threaded cap.

Unique Features

- Centrifugal cleaning action minimizes maintenance
- Large disc surface area with three-dimensional depth
- Particles can be flushed while filter is in operation
- Several color-coded disc options available
- Durable, corrosion-resistant, injection-molded housing
- Easily removable, quick-clamp lid assembly
- Pressure gauge ports molded into housing

See next page for Helix Disc Filter technical specs!



Technical Data

Flow Rates for a Single Filter Housing
2″/100 GPM max.*
2″ Super/100 GPM max.*
3″/200 GPM max.*

Multiple pods are manifolded for higher flow rates

* Maximum flow rates should be derated for high solids loading, particularly for finer disc media.

Pressure Rating

All units rated to 125 PSI

Temperature Rating
All units rated to 140°F

Inlet/Outlet Configurations

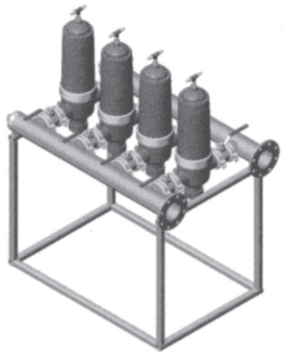
2″ and 3″ models available with NPT and/or Victaulic inlet/outlet connections
In-line and 90-degree configurations standard (Filter is supplied with a cap for outlet port not being used)

Construction Materials

Housing: Polyamide
Discs: Polypropylene
Gaskets: EPDM
Filter Pod Clamp: Stainless Steel (Type 316)

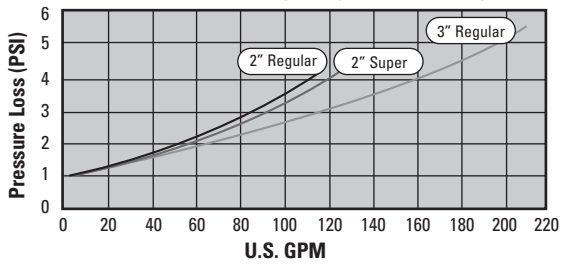
Micron Options Available

200 Micron (80 Mesh)
100 Micron (150 Mesh)
130 Micron (120 Mesh)
50 Micron (250 Mesh)



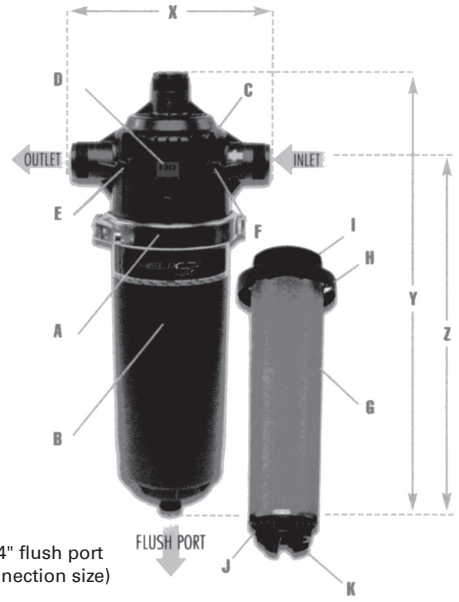
Please contact DME about modular capabilities.

Pressure Loss Through Single Filter Housing



Filter Components

A. Band Clamp Assembly
B. Removable Filter Lid
C. Filter Body
D. Micron/ Mesh Data Plate
E. Outlet gauge Port (Gauge not Included)
F. Inlet gauge Port (Gauge not Included)
G. Filter Disc Cartridge
H. Helix Element
I. O-Ring Seal
J. Cartridge Cover Plate
K. Threaded Wing Bolt
X. See table below
Y. See table below



(¾" flush port connection size)

Part Number	Model Type	Inlet/Outlet Size & Type	Filter Surface Area (Sq. In.)	Max. Flow (GPM)	(Refer to Diagram Above)		
					X	Y	Z
HD2NA*	Regular	2″/NPT	186	100	12–⅛″	24–⅛″	18″
HD2SA*	Super	2″/NPT	263	100	12–⅛″	28–¾″	22–15⁄16″
HD3NA*	Regular	2″/NPT	263	200	13–¼″	30″	22–15⁄16″
HD2NW*	Regular	2″/Victaulic	186	100	12–⅛″	24–⅛″	18″
HD2SW*	Super	2″/Victaulic	263	100	12–⅛″	28–¾″	22–15⁄16″
HD3NW*	Regular	2″/Victaulic	263	200	13–¼″	30″	22–15⁄16″

* Please specify disc size when ordering. (e.g: HD2NA**130** is a 2″ NPT Super filter with 130 micron discs)

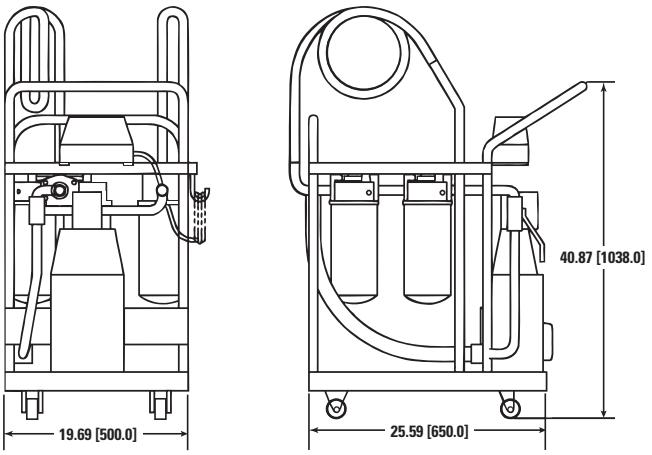
Portable Filter Carts

Stauff® Dual-Stage Filtration

The Stauff® Portable Filter Cart (SPFC) is a complete and practical unit fully capable of off-line filtration, filling or emptying reservoirs, or any application requiring the transfer or filtration of hydraulic oils. Multi-stage filtration can be applied to extend element lifetime. The SPFC is available with a variety of spin-on elements for quick and easy element replacement, as well with various pump/motor options. All components are mounted together on a sturdy frame guaranteeing long lifetime.

- 38 1/min (10 US GPM) gear pump
- Electric motor, single phase
- On/off button with 10' power cord
- Heavy-duty welded frame with drip pan and tool tray
- Suction strainer –100 mesh, spin-on
- 10' spiral reinforced PVC hoses w/wands
- 3-way ball valve to bypass filters
- Weight-190 lbs

PORTABLE FILTER CARTS



Stauff® Portable Filter Cart: Two-stage filter with spin-on suction filter and bypass valve. Buna seal, visual indicator, 110 VAC 60 Hz motor, gear pump 10 GPM

Part Number SPFC10-2-0000-0000BVC.....

*Note: please enter part# of desired filters from list below.

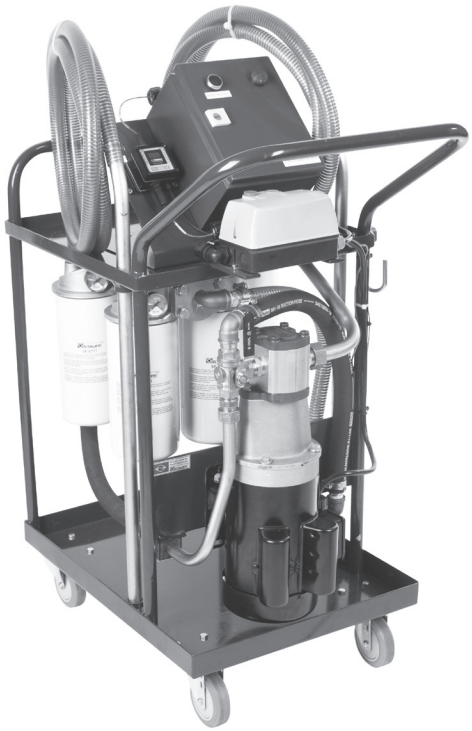
Part Number	Filter Description	Part Number	Filter Description
0000	Without filter element	**SF6721W**	10 micron paper water absorbing
SF6721	10 micron, paper	**SF6704MG**	3 micron, synthetic
SF6721-6	10 micron, paper (6 pack)	**SF6707MG**	6 micron, synthetic
SF6711	25 micron, paper	**SF6731MG**	12 micron, synthetic
SF6711-6	25 micron, paper (6 pack)	**SF6726MG**	25 micron, synthetic

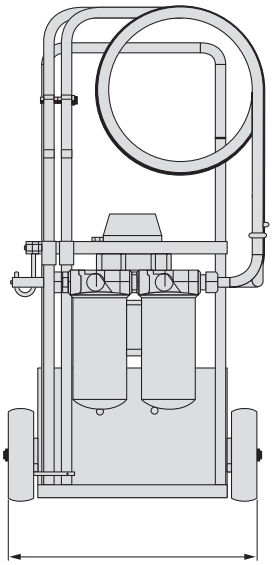
Portable Filter Carts

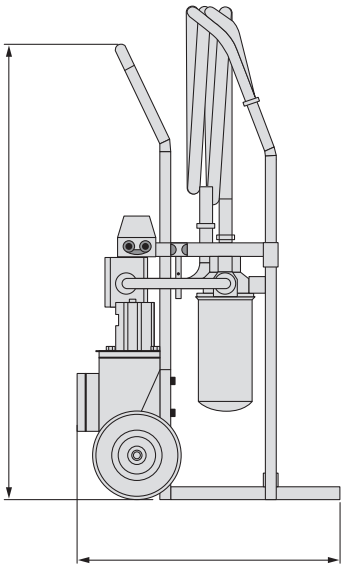
Stauff® Dual-Stage Filtration

The Stauff® Compact Filter Cart (SCFC) is a compact and handy filter cart, offering excellent service for maintenance departments. The carts can be used for offline filtration or as a transfer unit. The SCFC comes standard with upstream and downstream sample points that can either be used for online particle monitoring or fluid sampling.

- 38 1/min (10 US GPM) gear pump
- Electric motor, single phase
- Thermal overload relays
- Heavy-duty welded frame with coated tool tray epoxy
- Compact suction strainer
- 10' special hoses reinforced with internal spiral
- Filter head with bypass valve integrated
- Visual clogging indicator
- Weight-117 lbs







We still offer filters for obsolete Norman filter carts.

603
610
610AQ
625

Stauff® Compact Filter Cart: Single-stage filter with spin-on suction filter and bypass valve. Buna seal, visual indicator, 110 VAC 60 Hz motor, gear pump-10 GPM

Part Number Example: SCFC210GD0000BVC.

*Note: please enter part number of desired filter from table below.

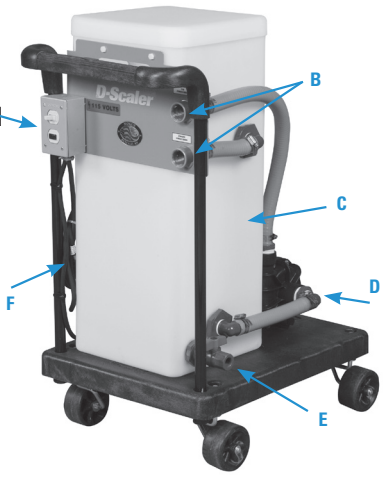
Part Number	Filter Description	Part Number	Filter Description
0000	Without filter element	SF6721W	10 micron paper, water absorbing
SF6721	10 micron, paper	SF6704MG	3 micron, synthetic
SF6721-6	10 micron, paper **(6 pack)**	SF6707MG	6 micron, synthetic
SF6711	25 micron, paper	SF6731MG	12 micron, synthetic
SF6711-6	25 micron, paper **(6 pack)**	SF6726MG	25 micron, synthetic

Note: Additional options, such as the Stauff Smart Cart, are available. Contact DME for more information.

D-Scaler System

Removes rust, scale, and/or lime from your system

- Compact & portable
- All non-corrosive materials
- Prolongs the life of your equipment
- Non-toxic, non-corrosive, & non-flammable fluid
- Easy to operate
- Easy to install
- Fluid is USDA authorized



D-SCALER SYSTEM

If hard water or mineral deposits are decreasing the efficiency of your process heating and/or cooling, then you need a Mokon D-Scaler. This system is proven to remove rust, scale and/or lime deposits from your process, as well as Mokon systems, or any other circulating temperature control system. This unit will increase the efficiency of your process while prolonging the life of your equipment.

The D-Scaler is portable and lightweight, making it easy to install and easy to operate. It is designed to circulate Mokon D-Scaler Fluid, a non-toxic, non-flammable liquid that quickly dissolves any deposit build-up. This USDA authorized fluid will circulate through your process safely with no harm to your equipment or to the environment.

Standard Features
The Mokon D-Scaler offers many standard features to provide an effective way to remove rust, scale, and/or lime deposits from your process or circulating temperature control system.

A Illuminated on/off toggle switch
B Easily accessible fluid connections
C Reservoir
D Pump and motor
E ½" NPT drain on side of tank
F Power cord

Part Number	Unit Size	Operating Pump	Temp.	Motor	Load Volt.	AMP	L × W × H	Ship Wt.
DScaleSM	Small	25 GPM @15 PSI	ambient	½	115	8.4	26 × 18 × 35	60 lbs.
DScaleLG	Large	25 GPM @32 PSI	ambient	¾	115	11.6	28 × 21 × 35	100 lbs.

D-Scaler Fluid Mokon's D-Scaler Fluid is a non-toxic, non-flammable liquid that quickly dissolves any deposit build-up. This USDA-authorized, non-corrosive fluid will not harm your equipment or the environment. It is available in 5- and 55- gallon containers. Both the fluid and hoses are sold separately from Mokon's D-Scaler unit.

D-Scaler Fluid, 5 gallon - Part No. 5DS

Hose Kit This kit consists of two 1" diameter x 10 ft. hoses with a snap-tight coupling on one end to connect to D-Scaler and threaded connection on the other.

Hose Kit - Part No. 600-044

Warranty and Delivery Mokon offers a one-year warranty as standard. The D-Scaler is designed for long trouble-free service and is constructed with reliable parts and durable materials. Both sizes of the D-Scaler are in stock for immediate shipment. Call DME for more information on availability and pricing.

NOTE: Empty tank after every use – fluid left in tank will destroy unit!

Rugged, low-cost pressure gauges for hydraulic & pneumatic applications. Liquid fill helps dampen pulsations and acts as a natural lubricant. DME offers low prices and quick shipment.

PRESSURE GAUGES

Hydraulic:
- 2 ½" dia.
- Liquid-filled gauge
- 304 stainless steel case & ring (except for WGGSS series of which all parts are stainless steel)

Pneumatic:
- 2" dia.
- Black enameled steel case

Part Number	Mount Location	Graduation			P.S.I. Range
		Number	Major	Minor	
GG2000	Bottom Stem	250	250	50	0–2000
GG3000	Bottom Stem	500	500	100	0–3000
GG5000	Bottom Stem	1000	500	100	0–5000
GG10000	Bottom Stem	2000	1000	200	0–10,000
WGGSS3000	Bottom Stem	250	250	50	0–3000
WGGSS5000	Bottom Stem	500	500	100	0–5000
SG1602C*	Back Mount	20	10	5	0–160
WGG2000C	Center Back w/clamp	–	250	50	0–2000
WGG5000C	Center Back w/clamp	–	1000	100	0–5000
SG1002*	Bottom Stem	–	10	15	0–100
SG1602*	Bottom Stem	–	10	15	0–160

*Denotes Pneumatic Gauges – all others are Hydraulic

Note: Generally, gauges should be selected so the maximum working pressure is not in excess of 75% of full-scale range.

American Industrial Heat Transfer Inc.
Manufacturer of Quality Heat Exchangers

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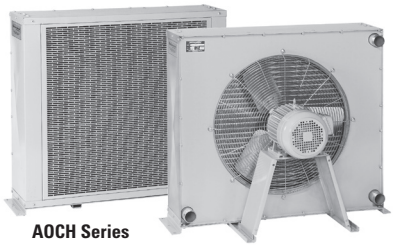
AB2000 Series

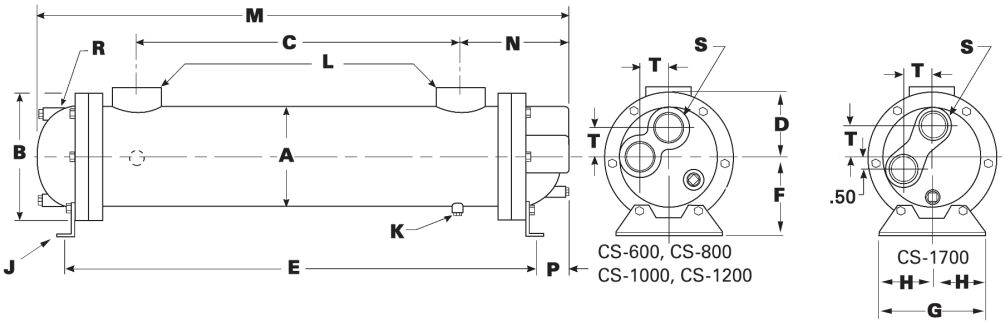
URCS Series


AOCH Series

CS Series

Rugged steel offers durable performance at low cost. Constructed of carbon steel & tube sheets with copper tubing and cast-iron bonnets. Unit offers a wide range of cooling at a low cost. Models are rated 300PSI shell, 150PSI tubes at 300°F, shipped complete with mounting brackets.

These are some of the many high-quality cooling products available... call DME for additional information on other products not shown here!

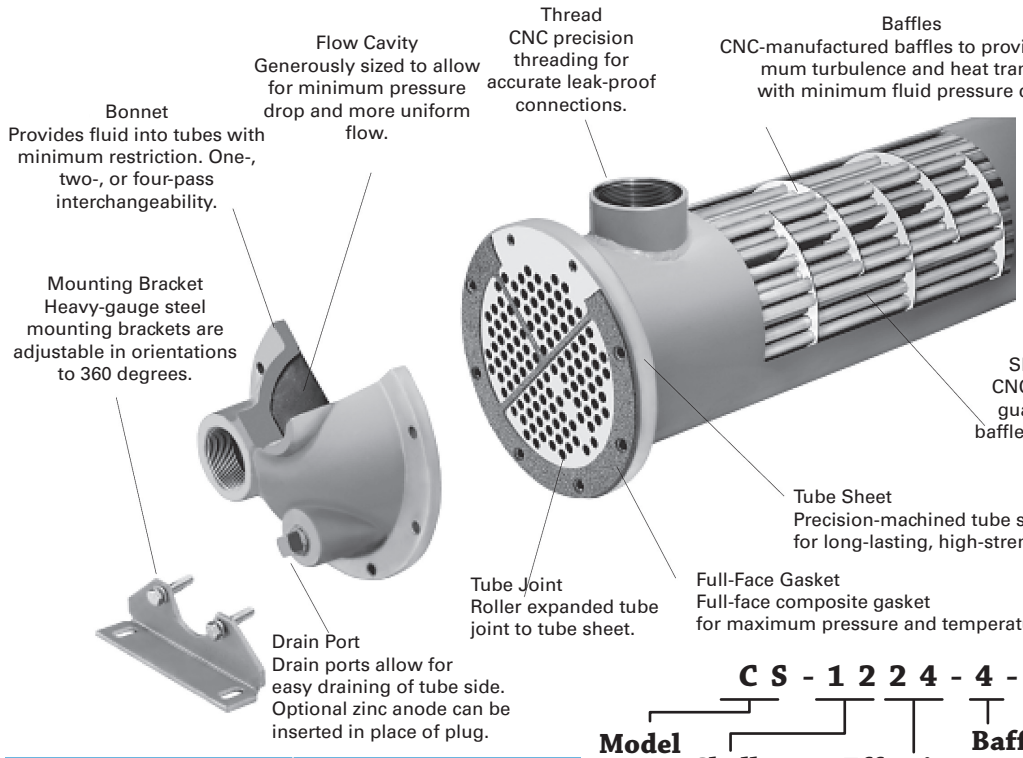


Dimensions

Model	A	B	C	D	E	F	G	H	J	K-NPT	L NPT	L SAE	Wt.	M	N	P	R-NPT	S-NPT	T
614	3.25	4.50	10.00	2.31	16.38	2.75	4.18	1.62	.38Ø	(2)	1.00	#16	17	17.12	3.56	0.38	(2)	0.75	1.00
624			20.00		26.38				× 0.88	0.25		1⅝–12	24	27.12			0.38		
814			9.00		16.62								32	17.88					
824	4.25	6.00	19.00	3.12	26.62	3.50	4.25	1.75	.44Ø	(2)	1.50	#24	41	27.88	4.44	0.63	(3)	0.75	1.25
836			31.00		38.62				× 1.00	0.25		1⅞–12	53	39.88			0.38		
1014			9.00		17.12								43	18.81					
1024	5.25	6.75	19.00	3.62	27.12	4.00	5.25	2.00	.44Ø	(2)	1.50	#24	57	28.81	4.81	0.75	(3)	1.00	1.69
1036			31.00		39.12				× 1.00	0.25		1⅞–12	72	40.81			0.38		
1224			18.25		27.13								85	29.13					
1236			30.25		39.13								110	41.13					
1248	6.25	7.75	42.25	4.16	51.13	4.50	6.25	2.50	.44Ø	(2)	2.00	#32	135	53.13	5.44	1.00	(3)	1.50	2.00
1260			54.25		63.13				× 1.00	0.38		2½–12	160	65.13			0.38		
1272			66.25		75.13								185	77.13					
1724			17.00		27.50								140	29.86					
1736			29.00		39.50								180	41.86					
1748			41.00		51.50							3.0"	220	53.86					
1760	8.25	10.12	53.00	5.62	63.50	5.75	8.25	3.50	.44Ø	(2)	3.00	Four-	260	65.86	7.06	1.81	(3)	2.00	2.50
1772			65.00		75.50				× 1.00	0.38		bolt	300	77.86			0.50		
1784			77.00		87.50							flange	340	89.86					

DME

American Industrial Heat Transfer Inc.
Manufacturer of Quality Heat Exchangers



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CS Series	Constr. Materials
Shell	Steel
Tubes	Copper
Baffle	Steel
Tube Sheet	Steel
End Bonnets	Cast Iron
Mounting Brackets	Steel
Gasket	Hypalon Composite

C S - 1 2 2 4 - 4 - 6 - F P

Model
CS

Shell Diameter
600 = 3.25"
800 = 4.25"
1000 = 5.25"
1200 = 6.25"
1700 = 8.25"

Effective Tube Length

Baffle Spacing Code
1.5"
2.0"
3.0"
4.0"
6.0"
8.0"

Cooling Tube Diameter
4 = ¼"
6 = ⅜"
10 = ⅝"

Tube Side Passes
FP = 4-pass

Part Number	Shell Diameter	Effective Tube Length	Baffle Spacing Code*	Cooling Tube Diameter	Tube Side Passes
CS614-212-4FP	3.25″	14″	2.5″	–	Four Pass
CS624-4-4FP	3.25″	24″	4.0″	¼″	Four Pass
CS824-4-4FP	4.25″	24″	4.0″	¼″	Four Pass
CS836-212-4FP	4.25″	36″	2.5″	¼″	Four Pass
CS1014-4-6FP	5.25″	14″	4.0″	⅜″	Four Pass
CS1024-4-6FP	5.25″	24″	4.0″	⅜″	Four Pass
CS1036-4-6FP	5.25″	36″	4.0″	⅜″	Four Pass
CS1224-4-6FP	6.25″	24″	4.0″	⅜″	Four Pass
CS1236-4-6FP	6.25″	36″	4.0″	⅜″	Four Pass
CS1248-4-6FP	6.25″	48″	4.0″	⅜″	Four Pass
CS1260-4-6FP	6.25″	60″	4.0″	⅜″	Four Pass
CS1724-8-6FP	8.25″	24″	8.0″	⅜″	Four Pass
CS1736-4-6FP	8.25″	36″	4.0″	⅜″	Four Pass
CS1748-4-6FP	8.25″	48″	4.0″	⅜″	Four Pass
CS1760-6-6FP	8.25″	60″	6.0″	⅜″	Four Pass
CS1772-6-6FP	8.25″	72″	6.0″	⅜″	Four Pass

Hydraulic Pumps

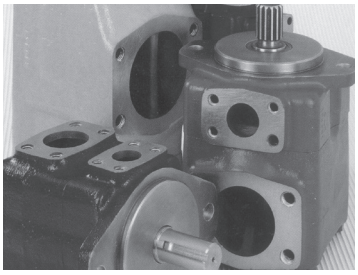
Vickers®

Be sure to reset pressure relief valve to proper setting before startup of a new pump or kit. No warranty for damage to parts due to excessive pressure.

- Two year in-service warranty
- Buna seals
- Pressures to 2500 PSI
- Compatible with petroleum oil, synthetics, water glycols and invert emulsions
- Foot- or flange-mounted design
- Improves machine operational performance

Complete Pump Part No.*	Shafts** Part No.	Bearings Part No.	Shaft Seals Part No.
25V-	25V-S	25V-B	25V-RS
35V-	35V-S	35V-B	35V-RS
45V-	45V-S	45V-B	45V-RS
2520V-	2520V-S	2520V-B	2520V-RS
3520V-	3520V-S	3520V-B	3520V-RS
3525V-	3525V-S	3525V-B	3525V-RS
4520V-	4520V-S	4520V-B	4520V-RS
4525V-	4525V-S	4525V-B	4525V-RS
4535V-	4535V-S	4535V-B	4535V-RS

* Please provide complete part number for pump
** #1 Shafts, heavy-duty
#86 Shafts and other options are also available



HYDRAULIC PUMPS

Cartridge Kits

Vickers®

- Two year in-service warranty
- Volumetric efficiency, flow & pressure are tested and checked to ensure maximum performance
- Big savings, big performance
- Improves machine operational performance

Part Number	GPM
20 Series VHO Cartridge Kits	
585471	5
585473	8
585475	11
585476	12
585477	14
25 Series VHO Cartridge Kits	
591002	12
591003	14
591004	17
591005	21

Part Number	GPM
35 Series VHO Cartridge Kits	
578311	25
578312	30
578313	35
578314	38
45 Series VHO Cartridge Kits	
581663	42
581664	50
580919	60

CARTRIDGE KITS

Mold Service Tables

This new generation of Mold Service Table is specifically designed to:

- Quickly and safely open molds
- Providing access to all parts of the mold for assembly and fitting of components, repair, maintenance, cleaning and production preparation
- Allows the mold to be opened and rotated without the use of cranes
- Rotates 360° for easy access to each mold half with indexing every 90°

3 Ton Table

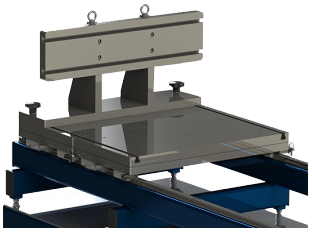
Features:

- 1.5, 2, 3 and 6 ton weight capacity
- Provides a working height of 850mm (33.46")
- Tables include: Pivot Plates, Platform & Tool Plate
- Optional accessories- Mechanical Brackets, Magnetic Brackets and Drawer Units

6 Ton Table

MOLD SERVICE TABLES

PART NUMBER	DESCRIPTION
OPTIM2515	MOLD MAINTENANCE TABLE ONLY 1500KG MAX LOAD
OPTIM2520	MOLD MAINTENANCE TABLE ONLY 2000KG MAX LOAD
OPTIM2530	MOLD MAINTENANCE TABLE ONLY 3000KG MAX LOAD
OPTIM2560	MOLD MAINTENANCE TABLE ONLY 6000KG MAX LOAD
OPTIM2515-850AL	OPTIMA 2515 + BASE PLATFORM + AL TOOLPLATE
OPTIM2520-850AL	OPTIMA 2520 + BASE PLATFORM + AL TOOLPLATE
OPTIM2530-850AL	OPTIMA 2530 + BASE PLATFORM + AL TOOLPLATE
OPTIM2560-850AL	OPTIMA 2560 + BASE PLATFORM + AL TOOLPLATE
OPTIM2515-850ALMB	OPTIMA 2515 + BASE PLATFORM + AL TOOLPLATE + MECHANICAL BRACKET
OPTIM2520-850ALMB	OPTIMA 2520 + BASE PLATFORM + AL TOOLPLATE + MECHANICAL BRACKET
OPTIM2530-850ALMB	OPTIMA 2530 + BASE PLATFORM + AL TOOLPLATE + MECHANICAL BRACKET
OPTIM2560-850ALMB	OPTIMA 2560 + BASE PLATFORM + AL TOOLPLATE + MECHANICAL BRACKET
OPTIMEQMAG120090	MAGNETIC BRACKET 135LX125WX38H
OPTIMEQMAG150090	MAGNETIC BRACKET 165LX165WX45H
OPTIMEQMAG180090	MAGNETIC BRACKET 195LX195WX45H
OPTIMEQMAG260090	MAGNETIC BRACKET 285LX195WX45H
OPTIMEQMAG130225	MAGNETIC BRACKET 150LX150WX38H
OPTIMEQMAG180225	MAGNETIC BRACKET 205LX205WX45H



Mechanical Bracket

Drawer Unit- Special Order

Magnetic Brackets- Special Order

MoldVac

Vacuum & Blowback Controller

A

Custom microprocessor allows for precise control of vacuum and blowback.

Vacuum Circuit -Eliminates flash, part burns, voids, and short shots. Adjustable control to 1/10th of a second.

Limit Switches - 1st energized at mold closed (vacuum), 2nd energized at mold full open (blowback).

Vacuum Reservoir - All units are designed with a vacuum reservoir & provides an instant vacuum within the mold

Blowback Circuit - Two-phase blowback assists in part ejection and purges vented pins

MOLD VAC

	MV10KDME*	MV20KDME**	MV40KDME**
Performance Characteristics			
Vacuum Rating (in3/s)	36	900	1,665
Vacuum Reservoir (in3)	74	2,700	5,000
Vacuum Level (in of hg)[1]	20-24	20-24	20-24
[1] Vacuum rating and levels are approximate based on mold design & construction			
Physical Dimensions (US)			
Height	42"	42"	50"
Width	18"	18"	20"
Depth	24"	28"	34"
Weight	150 lbs.	180 lbs.	200 lbs.
Utility Requirements			
Voltage	110V/1/60	240/460/3/60	240/460/3/60
Amp Draw	2 Amps	4 Amps/2 Amps	4 Amps/2 Amps
Compressed Air	33 cfm @65 psi	65 psi	65 psi
Air Inlet Size	3/8" NPT	3/8" NPT	3/8" NPT
Pipe Connection (connect to mold)	3/4" NPT	3/4" NPT	3/4" NPT

* Add 110 to the end of the part number when ordering voltage.

** Add 220 or 480 to the end of the part number when ordering voltage.

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Screw Tips

Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
Arburg (Stepped Seat) Earlier Models			
Stub Nose			
18mm	10/1.5mm	**CAA18**	**CAA18FC**
22mm	12/1.75mm	**CAA22**	**CAA22FC**
25mm	12/1.75mm	**CAA25**	**CAA25FC**
30mm	14/1.5mm	**CAA30**	**CAA30FC**
35mm	18/1.5mm	**CAA35**	**CAA35FC**
40mm	18/1.5mm	**CAA40**	**CAA40FC**
45mm	22/1.5mm	**CAA45**	**CAA45FC**
Spear Nose			
18mm	10/1.5mm	**CAA18C**	**CAA18CFC**
22mm	12/1.75mm	**CAA22C**	**CAA22CFC**
25mm	12/1.75mm	**CAA25C**	**CAA25CFC**
30mm	14/1.5mm	**CAA30C**	**CAA30CFC**
35mm	18/1.5mm	**CAA35C**	**CAA35CFC**
40mm	18/1.5mm	**CAA40C**	**CAA40CFC**
45mm	22/1.5mm	**CAA45C**	**CAA45CFC**
Arburg (Flat Seat) Later Models			
Stub Nose			
18mm	10/1.5mm	**CAA18B**	**CAA18BFC**
22mm	12/1.75mm	**CAA22B**	**CAA22BFC**
25mm	12/1.75mm	**CAA25B**	**CAA25BFC**
30mm	14/1.5mm	**CAA30B**	**CAA30BFC**
35mm	18/1.5mm	**CAA35B**	**CAA35BFC**
40mm	18/1.5mm	**CAA40B**	**CAA40BFC**
45mm	22/1.5mm	**CAA45B**	**CAA45BFC**
Spear Nose			
18mm	10/1.5mm	**CAA18A**	**CAA18AFC**
20mm	10/1.5mm	**CAA20A**	**CAA20AFC**
22mm	12/1.75mm	**CAA22A**	**CAA22AFC**
25mm	12/1.75mm	**CAA25A**	**CAA25AFC**
30mm	14/1.5mm	**CAA30A**	**CAA30AFC**
35mm	18/1.5mm	**CAA35A**	**CAA35AFC**
40mm	18/1.5mm	**CAA40A**	**CAA40AFC**
45mm	22/1.5mm	**CAA45A**	**CAA45AFC**
Autojectors			
¾″	7/16″–14	**CAJ19**	**CAJ19FC**
1″	½″–13	**CAJ25**	**CAJ25FC**
1 ¼″	⅝″–11	**CAJ31**	**CAJ31FC**
1 ½″	¾″–10	**CAJ38**	**CAJ38FC**
1 ¾″	⅞″–9	**CAJ44**	**CAJ44FC**
2 ¾″	1 ¼″–7	**CAJ70**	**CAJ70FC**

SCREW TIPS

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Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
Battenfeld			
22mm	12/1.75mm		**CAB22FC**
25mm	12/1.75mm	**CAB25**	**CAB25FC**
30mm	14/1.5mm	**CAB30**	**CAB30FC**
35mm	16/1.5mm	**CAB35**	**CAB35FC**
40mm	20/2mm	**CAB40**	**CAB40FC**
40mm	20/2mm	**CAB40A**	**CAB40AFC**
45mm	20/2mm	**CAB45A**	**CAB45AFC**
60mm	24/2mm	**CAB60**	**CAB60FC**
70mm	40/2mm	**CAB70**	**CAB70FC**
110mm	60/2.5mm	**CAB110**	**CAB110FC**
Beloit			
1 ¼″	⅝″–18	**CABL32**	**CABL32FC**
1 ½″	¾″–16	**CABL38**	**CABL38FC**
1 ¾″	⅞″–14	**CABL44**	**CABL44FC**
2 ⅛″	⅞″–9	**CABL54**	**CABL54FC**
2 ½″	1″–8	**CABL64**	**CABL64FC**
3″	1 ¼″–7	**CABL76**	**CABL76FC**
3 ½″	1 ¾″–5	**CABL89**	**CABL89FC**
***IN STOCK**	**Boy**		
14mm	8/1.25mm	**CAAB14**	**CAAB14FC**
16mm	8/1.25mm	**CAAB16**	**CAAB16FC**
18mm	10/1.5mm	**CAAB18**	**CAAB18FC**
*22mm	12/1.75mm	**CAAB22**	**CAAB22FC**
*24mm	12/1.75mm	**CAAB24**	**CAAB24FC**
*28mm	12/1.75mm	**CAAB28**	**CAAB28FC**
*32mm	14/2mm	**CAAB32**	**CAAB32FC**
*36mm	16/2mm	**CAAB36**	**CAAB36FC**
*38mm	16/2mm	**CAAB38**	**CAAB38FC**
*42mm	16/2mm	**CAAB42**	**CAAB42FC**
*48mm	18/2.5mm	**CAAB48**	**CAAB48FC**
Cincinnati Milacron (earlier models)			
1 ⅝″	⅝″–11	**CAC41**	**CAC41FC**
2″	¾″–16	**CAC51**	**CAC51FC**
2 ½″	1 ¼″–12		**CAC64FC**
2 ¾″	1 ¼″–12	**CAC70**	**CAC70FC**
3 ¼″	1 ½″–12	**CAC83**	**CAC83FC**
3 ½″	1 ½″–12	**CAC88**	**CAC88FC**

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SCREW TIPS

Screw Tips

Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
Cincinnati Milacron (earlier models) cont.			
4½″	2″–12	CAC114	CAC114FC
5¼″	2¼″–12		CAC133FC
6″	2½″–12	CAC152	CAC152FC
Cincinnati Milacron (newer models)			
1⅝″	¾″–10	CAC41	CAC41FC
1¾″	⅝″–11	CAC44A	CAC44AFC
1¾″	¾″–10	CAC44	CAC44FC
2″	1″–8	CAD51	CAD51FC
2¼″	1″–8	CAD57	CAD57FC
2½″	1¼″–7	CAD64	CAD64FC
2¾″	1¼″–7	CAD70	CAD70FC
3¼″	1½″–6	CAD83A	CAD83AFC
3½″	1½″–6	CAD88	CAD88FC
4½″	2″–6	CAD114	CAD114FC
5¼″	2¼″–6	CAD133	CAD133FC
6″	2½″–6	CAD152	CAD152FC
Cincinnati Milacron (other models)			
28mm	16/2mm	CAC28	CAC28FC
32mm	18/2.5mm	CAC32	CAC32FC
1 5/16″	⅝″–11	CAC33	CAC33FC
35mm	18/2.5mm		CAC35FC
36mm	20/2.5mm	CAC36	CAC36FC
40mm	20/2.5mm	CAC40	CAC40FC
42mm	22/2.5mm	CAC42	CAC42FC
44mm	24/3mm	CAC44D	CAC44DFC
50mm	24/3mm	CAC50	CAC50FC
55mm	27/3mm	CAC55	CAC55FC
56mm	30/3.5mm	CAC56	CAC56FC
65mm	30/3.5mm	CAC65	CAC65FC
70mm	36/4mm	CAC70A	CAC70AFC
110mm	56/5.5mm	CAC110	CAC110FC
***IN STOCK**	**Demag**		
18mm	8/1.25mm	CADM18	CADM18FC
*22mm	10/1.5mm	CADM22	CADM22FC
*25mm	10/1.5mm	CADM25	CADM25FC
*30mm	12/1.75mm	CADM30	CADM30FC
*35mm	14/2mm	CADM35	CADM35FC
40mm	16/2mm	CADM40	CADM40FC
*45mm	TR20/3mm	CADM45	CADM45FC
*50mm	TR22/3mm	CADM50	CADM50FC
*60mm	TR27/3mm	CADM60	CADM60FC
*70mm	TR30/3mm	CADM70	CADM70FC
*80mm	TR35/3mm	CADM80	CADM80FC
95mm	TR40/3mm	CADM95	CADM95FC
110mm	TR50/3mm	CADM110	CADM110FC

SCREW TIPS

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Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
Eagan			
1¾″	¾″–10	**CAE44**	**CAE44FC**
2″	⅞″–9	**CAE51**	**CAE51FC**
2½″	1⅛″–7	**CAE64**	**CAE64FC**
3″	1⅝″–6	**CAE76**	**CAE76FC**
3½″	1¾″–6	**CAE89**	**CAE89FC**
4″	2″–6	**CAE102**	**CAE102FC**
4½″	2¼″–6	**CAE114**	**CAE114FC**
5¼″	2¾″–6	**CAE133**	**CAE133FC**
6″	3″–6	**CAE152**	**CAE152FC**
***IN STOCK**	**Engel**		
18mm 10°	10/1.5mm	**CAEN18**	**CAEN18FC**
*22mm 30°	12/1.75mm	**CAEN22**	**CAEN22FC**
*25mm	12/1.75mm	**CAEN25**	**CAEN25FC**
*30mm	12/1.75mm	**CAEN30**	**CAEN30FC**
*35mm	12/1.75mm	**CAEN35**	**CAEN35FC**
*40mm	16/2mm	**CAEN40**	**CAEN40FC**
*45mm	20/2.5mm	**CAEN45**	**CAEN45FC**
*50mm	24/3mm	**CAEN50**	**CAEN50FC**
*55mm	24/3mm	**CAEN55**	**CAEN55FC**
*60mm	30/3.5mm	**CAEN60**	**CAEN60FC**
*70mm	36/4mm	**CAEN70**	**CAEN70FC**
*80mm	36/4mm	**CAEN80**	**CAEN80FC**
*90mm	42/4.5mm	**CAEN90**	**CAEN90FC**
*105mm	42/4.5mm	**CAEN105**	**CAEN65FC**
Fahr Bucher			
50mm	18/1.5mm	**CAFB50**	**CAFB50FC**
60mm	20/1.5mm	**CAFB60A**	**CAFB60AFC**
Farrel			
1¼″	½″–13	**CAL32**	**CAL32FC**
1⅝″	¾″–10	**CAL41**	**CAL41FC**
2.1″	1″–8	**CAU53**	**CAU53FC**
2½″	1″–8	**CAU64**	**CAU64FC**
2.80″	1⅜″–8	**CAU70**	**CAU70FC**
3¼″	1½″–8	**CAU83**	**CAU83FC**
3.60″	1⅝″–8	**CAU91**	**CAU91FC**
4¼″	2″–8	**CAU108**	**CAU108FC**
4¾″	2¼″–8	**CAU121**	**CAU121FC**
Fellows/Egan			
1¾″	¾″–10	**CAE44**	**CAE44FC**
2″	⅞″–9	**CAE51**	**CAE51FC**
2½″	1⅛″–7	**CAE64**	**CAE64FC**
3″	1⅝″–6	**CAE76**	**CAE76FC**

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SCREW TIPS

Screw Tips

Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
Ferromatik Milacron			
25mm	12/1mm	**CAFM25**	**CAFM25FC**
30mm	16/1.5mm	**CAFM30**	**CAFM30FC**
40mm	—	**CAFM40**	**CAFM40FC**
***IN STOCK**	**HPM (new style)**		
1-⅜"	⅝"–11	**CAH35**	**CAH35FC**
*1-½"	⅝"–11	**CAH38**	**CAH38FC**
*1-¾"	¾"–10	**CAH44**	**CAH44FC**
*2"	⅞"–9	**CAH51**	**CAH51FC**
*2-½"	1–⅛"–7	**CAH64**	**CAH64FC**
*3"	1–⅝"–6	**CAH76**	**CAH76FC**
3-½"	1–¾"–6	**CAH89**	**CAH89FC**
4-½"	2–¼"–6	**CAHH114**	**CAHH114FC**
Impco			
2 ⅜"	1⅜"–6	**CAI60**	**CAI60FC**
2 ½"	1½"–6	**CAI64A**	**CAI64AFC**
2 13⁄16"	1½"–8	**CAI71A**	**CAI71AFC**
3 ¼"	2"–8	**CAI83A**	**CAI83AFC**
4 ¼"	2¼"–4.5	**CAI108**	**CAI108FC**
4 ¾"	2¾"–4	**CAI121**	**CAI121FC**
Jaco			
1 ¼"	⅝"–11	**CAJ32**	**CAJ32FC**
***IN STOCK**	**JSW**		
25mm	12/1.75mm	**CAJS25**	**CAJS25FC**
*28mm	16/2mm	**CAJS28**	**CAJS28FC**
*32mm	16/2mm	**CAJS32**	**CAJS32FC**
32mm	18/2.5mm	**CAJS32A**	**CAJS32AFC**
*35mm	TR20/3mm	**CAJS35**	**CAJS35FC**
*40mm	TR22/2mm	**CAJS40**	**CAJS40FC**
*40mm	20/2.5mm	**CAJS40A**	**CAJS40AFC**
45mm	TR24/3mm	**CAJS45**	**CAJS45FC**
45mm	TR27/3mm	**CAJS45A**	**CAJS45AFC**
46mm	TR24/3mm	**CAJS46**	**CAJS46FC**
51mm	TR27/3mm	**CAJS51**	**CAJS51FC**
53mm	TR28/3mm	**CAJS53**	**CAJS53FC**
58mm	TR36/3mm	**CAJS58**	**CAJS58FC**
66mm	TR36/3mm	**CAJS66**	**CAJS66FC**
72mm	TR40/3mm	**CAJS72**	**CAJS72FC**
84mm	TR47/3mm	**CAJS84**	**CAJS84FC**
99mm	TR60/3mm	**CAJS99**	**CAJS99FC**

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SCREW TIPS

Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
*IN STOCK	JSW		
*25mm	12/1.75mm	CAJS25	CAJS25FC
*28mm	16/2mm	CAJS28	CAJS28FC
*32mm	16/2mm	CAJS32	CAJS32FC
32mm	18/2.5mm	CAJS32A	CAJS32AFC
*35mm	TR20/3mm	CAJS35	CAJS35FC
*40mm	TR22/2mm	CAJS40	CAJS40FC
*40mm	20/2.5mm	CAJS40A	CAJS40AFC
45mm	TR24/3mm	CAJS45	CAJS45FC
45mm	TR27/3mm	CAJS45A	CAJS45AFC
46mm	TR24/3mm	CAJS46	CAJS46FC
51mm	TR27/3mm	CAJS51	CAJS51FC
53mm	TR28/3mm	CAJS53	CAJS53FC
58mm	TR36/3mm	CAJS58	CAJS58FC
66mm	TR36/3mm	CAJS66	CAJS66FC
72mm	TR40/3mm	CAJS72	CAJS72FC
84mm	TR47/3mm	CAJS84	CAJS84FC
99mm	TR60/3mm	CAJS99	CAJS99FC
Kawaguchi			
27mm	TR13/2mm	CAK27	CAK27FC
28mm	TR15/1.5mm	CAK28B	CAK28BFC
30mm	TR15/2mm	CAK30	CAK30FC
32mm	18/2mm	CAK32	CAK32FC
34mm	20/2mm	CAK34	CAK34FC
36mm	TR20/2mm	CAK36	CAK36FC
37mm	TR20/2mm	CAK37	CAK37FC
40mm	TR20/2mm	CAK40	CAK40FC
42mm	TR24/3mm	CAK42	CAK42FCS
50mm	TR26/3mm	CAK50A	CAK50AFC
55mm	TR26/2mm	CAK55	CAK55FC
58mm	TR30/3mm	CAK58	CAK58FC
60mm	TR34/4mm	CAK60	CAK60FC
70mm	TR34/4mm	CAK70A	CAK70AFC
72mm	TR40/4mm	CAK72	CAK72FC

SCREW TIPS

Screw Tips

Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
Klockner Ferromatik			
30mm	16/1.5mm	**CAKF30**	**CAKF30FC**
40mm	20/1.5mm	**CAKF40**	**CAKF40FC**
45mm	20/1.5mm	**CAKF45**	**CAKF45FC**
60mm	30/2mm	**CAKF60**	**CAKF60FC**
Krauss-Maffei			
40mm	20/2.5mm	**CAKM40**	**CAKM40FC**
Lester			
2 ½″	1 ⅜″–8	**CALS64**	**CALS64FC**
Lombard			
1 ⅝″	¾″–10	**CAL41**	**CAL41FC**
2″	1″–8	**CAL51**	**CAL51FC**
2 ½″	1 ¼″–7	**CAL64**	**CAL64FC**
2 ¾″	1 ⅜″–6	**CAL70**	**CAL70FC**
3″	1 ½″–6	**CAL76**	**CAL76FC**
3 ½″	1 ⅝″–8	**CAL89**	**CAL89FC**
***IN STOCK**	**Mitsubishi**		
36mm	22/2.5mm	**CAMI36**	**CAMI36FC**
45mm	27/3mm	**CAMI45**	**CAMI45FC**
*50mm	27/3mm	**CAMI50**	**CAMI50FC**
*57mm	33/3.5mm	**CAMI57**	**CAMI57FC**
70mm	39/4mm	**CAMI70**	**CAMI70FC**
80mm	44/4.5mm	**CAMI80**	**CAMI80FC**
120mm	60/5.5mm	**CAMI120**	**CAMI120FC**
Natco			
1 ⅞″	1 ⅛″–6	**CAN48**	**CAN48FC**
2 ¼″	1 ⅛″–6	**CAN57**	**CAN57FC**
70mm	1 ⅛″–6	**CAN70**	**CAN70FC**
90mm	1 ½″–6	**CAN91**	**CAN91FC**
105mm	1 ¾″–6	**CAN105**	**CAN105FC**
Negri Bossi (many other sizes not listed)			
25mm	10/1.5mm	**CANG25**	**CANG25FC**
35mm	16/1.5mm	**CANG35**	**CANG35FC**
38mm	16/1.5mm	**CANG38**	**CANG38FC**
45mm	22/2mm	**CANG45**	**CANG45FC**
50mm	22/2mm	**CANG50**	**CANG50FC**
60mm	26/2mm	**CANG60**	**CANG60FC**
Netstal			
32mm	16/2mm	**CANE32**	**CANE32FC**
40mm long	18/2.5mm	**CANE40**	**CANE40FC**
45mm	20/2.5mm	**CANE45**	**CANE45FC**
50mm	20/2mm	**CANE50**	**CANE50FC**
New Britain (HPM)			
30mm	TR18/3mm	**CANB30**	**CANB30FC**
1 ⅜″	9⁄16″–18	**CANB35**	**CANB35FC**
36mm	TR20/3mm	**CANB36**	**CANB36FC**
1 ⅝″	¾″–16	**CANB41**	**CANB41FC**

SCREW TIPS

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Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
New Britain (HPM) cont.			
42mm	TR27/3mm	**CANB42**	**CANB42FC**
1 ¾″	¾″–16	**CANB44**	**CANB44FC**
2″	1″–8	**CANB51**	**CANB51FC**
55mm	TR35/3mm	**CANB55**	**CANB55FC**
65mm	TR40/3mm	**CANB65**	**CANB65FC**
2 ¾″	1 ⅜″–8	**CANB71**	**CANB71FC**
70mm	TR40/3mm	**CANB70**	**CANB70FC**
82mm	TR47/3mm	**CANB82**	**CANB82FC**
3 ¼″	1 ½″–8	**CANB83**	**CANB83FC**
3 ½″	1 ¾″–8	**CANB89**	**CANB89FC**
***IN STOCK**	**Newbury (specify Blunt or Pointed)**		
***1″**	½″–13	**CANY25**	**CANY25FC**
***1 ¼″**	⅝″–11	**CANY32**	**CANY32FC**
***1 ⅜″**	⅝″–11	**CANY35**	**CANY35FC**
***1 ½″**	¾″–10	**CANY38**	**CANY38FC**
***1 ¾″**	⅞″–9	**CANY44**	**CANY44FC**
***2″**	1″–8	**CANY51**	**CANY51FC**
2 ¼″	1″–8	**CANY57**	**CANY57FC**
***IN STOCK**	**Niigata**		
18mm	8/0.75mm	**CANA18**	**CANA18FC**
25mm	12/1mm	**CANA25**	**CANA25FC**
*35mm	18/2.5mm	**CANA35**	**CANA35FC**
*40mm	20/2.5mm	**CANA40**	**CANA40FC**
*52mm	27/3mm	**CANA52**	**CANA52FC**
*60mm	30/3.5mm	**CANA60**	**CANA60FC**
*68mm	30/3mm	**CANA68**	**CANA68FC**
*76mm	42/3mm	**CANA76**	**CANA76FC**
90mm	48/3mm	**CANA90**	**CANA90FC**

SCREW TIPS

Screw Tips

Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
*IN STOCK	Nissei		
*14mm	7/0.75mm	CANI14	CANI14FC
*16mm	9/1mm	CANI16	CANI16FC
*19mm	10/1.5mm	CANI19	CANI19FC
*22mm	TR14/2mm	CANI22	CANI22FC
*26mm	TR14/2mm	CANI26	CANI26FC
*28mm	TR14/2mm	CANI28	CANI28FC
*30mm	TR16/2mm	CANI30	CANI30FC
*32mm	TR18/2mm	CANI32	CANI32FC
*36mm	TR20/2mm	CANI36	CANI36FC
*38mm	TR22/3mm	CANI38A	CANI38AFC
*40mm	TR24/3mm	CANI40	CANI40FC
*45mm	TR26/3mm	CANI45	CANI45FC
*50mm	TR28/3mm	CANI50	CANI50FC
*56mm	TR32/3mm	CANI56	CANI56FC
*63mm	TR36/3mm	CANI63	CANI63FC
*71mm	TR44/3mm	CANI71	CANI71FC
*72mm	TR44/3mm	CANI72	CANI72FC
*75mm	TR44/3mm	CANI75	CANI75FC
*80mm	TR48/3mm	CANI80	CANI80FC
84mm	TR52/3mm	CANI84	CANI84FC
*90mm	TR55/3mm	CANI90	CANI90FC
*100mm	TR65/3mm	CANI100	CANI100FC
112mm	TR65/3mm	CANI112	CANI112FC
125mm	TR75/3mm	CANI125	CANI125FC

SCREW TIPS

NOTE: This is just a short list of Screw Tips that we have. If you don't see the brand/type or size of the screw tip you need, give us a call! We have PVC smear tips and ball checks, as well!

Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
Reed Prentice			
1 5/8″	7/8″–9	**CAR41**	**CAR41FC**
1 3/4″ TC	3/4″–10	**CAR44**	**CAR44FC**
2″ TD	1″–8	**CAR51**	**CAR51FC**
2 1/8″ TC	1″–8	**CAR54**	**CAR54FC**
2 1/2″ TD	1 1/4″–8	**CAR64**	**CAR64FC**
3″ TD	1 3/8″–8	**CAR76**	**CAR76FC**
3 5/16″ TC	1 3/4″–5	**CAR84**	**CAR84FC**
3 3/4″ TD	1 7/8″–8	**CAR95**	**CAR95FC**
STM (see Krauss-Maffei) Stokes			
1 1/4″	9/16″–18	**CAS32**	**CAS32FC**
1 3/8″	5/8″–18	**CAS35**	**CAS35FC**
1 5/8″	3/4″–16	**CAS41**	**CAS41FC**
1 7/8″	7/8″–14	**CAS48**	**CAS48FC**
2″	1″–12	**CAS51**	**CAS51FC**
2 1/2″	1 1/8″–12	**CAS64**	**CAS64FC**
2 3/4″	1 1/4″–12	**CAS70**	**CAS70FC**
3″	1 3/8″–12	**CAS76**	**CAS76FC**
4″	1 3/4″–12	**CAS102**	**CAS102FC**
***IN STOCK**	**Sumitomo**		
18mm	9/1mm	**CASM18**	**CASM18FC**
*20mm	10/1.25mm	**CASM20**	**CASM20FC**
*22mm	10/1.25mm	**CASM22**	**CASM22FC**
25mm	12/1.5mm	**CASM25**	**CASM25FC**
28mm	12/1.5mm	**CASM28**	**CASM28FC**
*32mm	16/1.5mm	**CASM32**	**CASM32FC**
*36mm	16/1.5mm	**CASM36**	**CASM36FC**
40mm	22/2mm	**CASM40**	**CASM40FC**
45mm	24/2mm	**CASM45**	**CASM45FC**
50mm	24/2mm	**CASM50**	**CASM50FC**
63mm	33/3mm	**CASM63**	**CASM63FC**
71mm	633/3mm	**CASM71**	**CASM71FC**
80mm	40/3mm	**CASM80**	**CASM80FC**
100mm	52/4mm	**CASM100**	**CASM100FC**
Toshiba			
25mm	12/1.5mm	**CAT25**	**CAT25FC**
28mm	15/1.5mm	**CAT28**	**CAT28FC**
32mm	18/2mm	**CAT32**	**CAT32FC**
36mm	22/2mm	**CAT36**	**CAT36FC**
40mm	22/2mm	**CAT40**	**CAT40FC**
45mm	26/1.5mm	**CAT45**	**CAT45FC**
50mm	28/2mm	**CAT50**	**CAT50FC**
55mm	28/2mm	**CAT55**	**CAT55FC**

SCREW TIPS

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Screw Tips

Screw Diameter	Thread	H13 Part Number	CPM9V Part Number
Toshiba cont.			
60mm	28/2mm	CAT60	CAT60FC
70mm	32/2mm	CAT70	CAT70FC
80mm		CAT80	CAT80FC
85mm	42/3mm	CAT85	CAT85FC
100mm	45/4mm	CAT100A	CAT100AFC
115mm	60/4mm	CAT115	CAT115FC
Toyo			
*IN STOCK *24mm	12/1.5mm	CATY24	CATY24FC
*28mm	16/2mm	CATY28	CATY28FC
*32mm	18/2.5mm	CATY32	CATY32FC
*36mm	18/2.5mm	CATY36	CATY36FC
*40mm	22/2.5mm	CATY40	CATY40FC
*46mm	24/3mm	CATY46	CATY46FC
*50mm	27/3mm	CATY50	CATY50FC
*55mm	27/3mm	CATY55	CATY55FC
*60mm	30/3mm	CATY60	CATY60FC
*68mm	33/3.5mm	CATY68	CATY68FC
*75mm	36/4mm	CATY75	CATY75FC
*83mm	38/4mm	CATY83	CATY83FC
Trueblood			
1″	½″–13	CATR25	CATR25FC
1 ¼″	⅝″–11	CATR32	CATR32FC
1 ⅜″	⅝″–11	CATR35	CATR35FC
1 ½″	⅝″–11	CATR38	CATR38FC
1 ¾″	¾″–10	CATR44	CATR44FC
2″	⅞″–9	CATR51	CATR51FC
Trubor			
*IN STOCK *25mm	½″–13	CATB25	CATB25FC
*28mm	½″–13	CATB28	CATB28FC
*31mm	⅝″–11	CATB31	CATB31FC
*35mm	⅝″–11	CATB35	CATB35FC
Van Dorn			
*IN STOCK *30mm	⅝″–11	CAV30	CAV30FC
*35mm	¾″–10	CAV35	CAV35FC
*38mm	¾″–10	CAV38	CAV38FC
*40mm	¾″–10	CAV40	CAV40FC
*50mm	1″–8	CAV50	CAV50FC
*57mm	1 ¼″–7	CAV57	CAV57FC
*65mm	1 ⅜″–6	CAV65	CAV65FC
*69mm	1 ⅜″–6	CAV69	CAV69FC
*75mm	1 ⅜″–6	CAV75	CAV75FC
*80mm	1 ⅜″–6	CAV80	CAV80FC
*90mm	1 ¾″–8	CAV90	CAV90FC
*105mm	1 ¾″–8	CAV105	CAV105FC
115mm	2″–8	CAV115	CAV115FC

NOTE: This is just a short list of Screw Tips that we have. If you don't see the brand/type or size of the screw tip you need, give us a call! We have PVC smear tips and ball checks, as well!

SCREW TIPS

DME Repairs Worn Injection or Extrusion Barrel Re-sleeves with New Tool Steel or Bimetallic Liners for Less than New!

The worn area of your barrel is bored out and honed to accept a sleeve machined from a wear-resistant alloy. The sleeve is machined slightly larger than the bore of the barrel. After the sleeve is shrunk by freezing and the barrel is expanded by heating, the sleeve is inserted into the barrel. As the temperatures equalize, the sleeve becomes tightly locked in the barrel. The dimensions of the sleeve are carefully chosen and precisely machined to produce an even and tightly interferenced fit over the full length of the sleeve. The result is a permanent sleeve that will not move or crack and, conducts heat well through the barrel-sleeve boundary.

Sleeving Material

D-2 Tool Steel

- One of the most wear-resistant of the conventional tool steels
- Deep hardened to maximize wear life
- Alloyed with 12% Chromium and 1% Vanadium
- Chromium gives it mild corrosion-resistance

CPM1OV

- Wear-resistant particle metallurgy tool steel
- Laboratory wear tests show it can outlast D-2 by 20:1
- Alloyed with a high percentage (9.74%) of vanadium-the hardest of the tool steel carbides

CPM15V

- Extremely wear-resistant particle metallurgy tool steel
- Highest abrasion resistance of any barrel material
- Best for glass-filled resins
- Vanadium (14.5%) carbides provide extreme abrasion resistance

CPM420V

- Martensitic stainless tool steel
- Combination 13% chromium and highly wear resistant vanadium (9%) carbides provide superior wear resistance in moderately corrosive conditions

Standard Bimetallic

- Centrifugally cast by high speed rotation in a furnace
- Contains nickel, carbon, manganese, boron and silicone
- Service life will exceed that of nitrided low-alloy steel by 4 to 5 times

Carbide Bimetallic

- Centrifugally cast inlay composed of 80% tungsten carbide and chromium boride in a chromium-boron-nickel matrix
- Excellent for continuous processing of glass-filled resins
- Chromium and nickel provide a moderate corrosion resistance
- 60-64 Rc matrix hardness with a micro-hardness of tungsten carbide and chromium boride equivalent to more than 70 Rc

Corrosion-Resistant Bimetallic

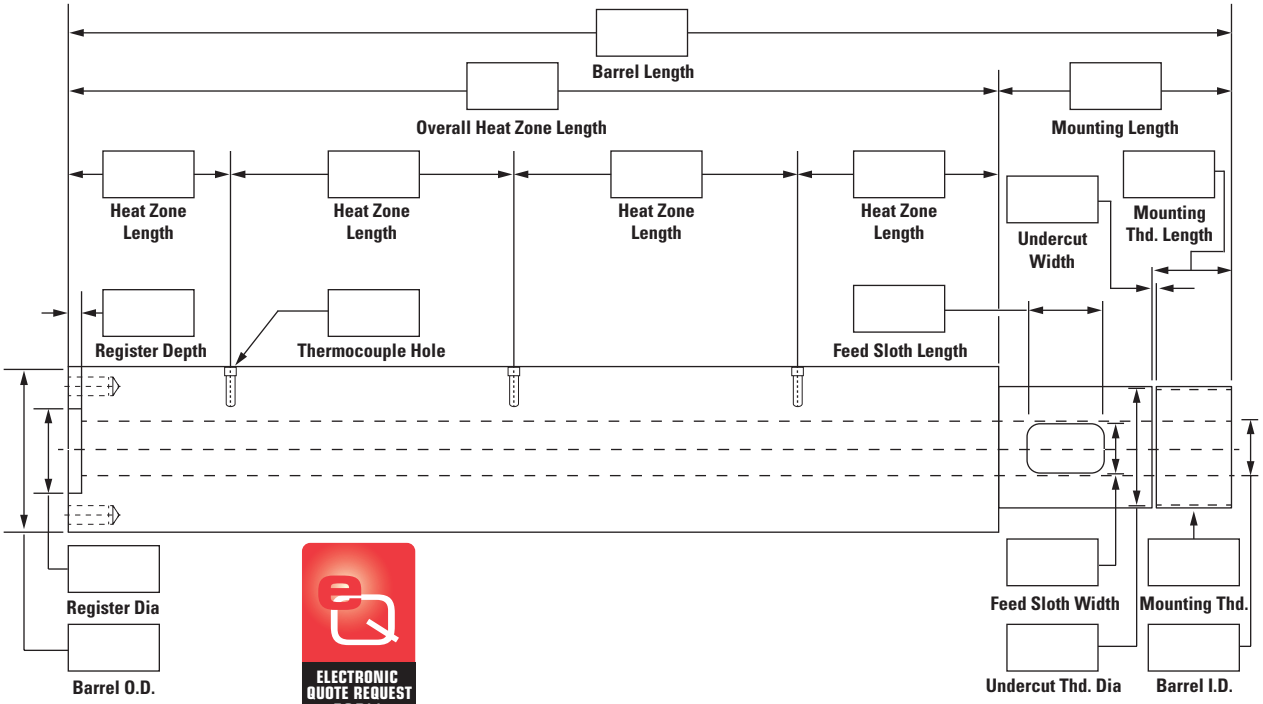
- Ideal for extreme corrosion resistance
- In highly corrosive atmospheres, can demonstrate a service life over 10 times that of nitrided low-alloy barrels
- Borides provide excellent wear resistance
- Composed of cobalt-nickel base alloy with a high chromium and boron content

Send your barrel for a free inspection and quote.
DME Barrel Repair - 9841 York Alpha Dr., North Royalton, OH. 44133

Non-Stock or Custom Barrel Form

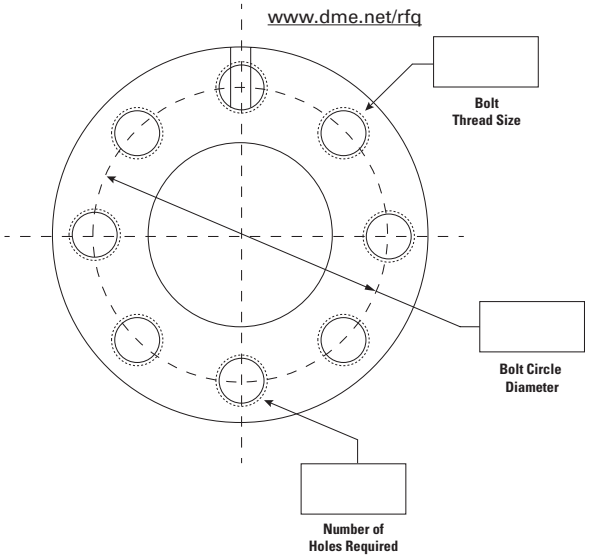
Please thoroughly complete this form and fax (888-808-4363) or email (DME@dme.net) to receive a quote.

ONLINE FORM



ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq



Other Information Required:

Liner (Partial or Full): _____

Liner Material Type: _____

Machine Make: _____

Machine Model: _____

Size (Ton and Ounce): _____

Stroke Length: _____

Base Material: _____

Optional Barrel Straightening: YES ☐ NO ☐

Optional Pressure Ports: YES ☐ NO ☐

Optional Vents: YES ☐ NO ☐

Optional Feed Slot: YES ☐ NO ☐

Date: _____ Quantity: _____ Phone: (___) _____ Fax: (___) _____

Name: _____ Account Number: _____

Company: _____ Email: _____

Address: _____

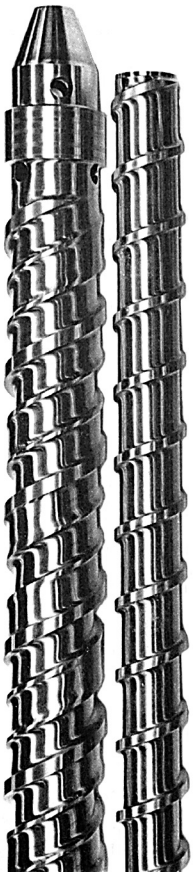
City: _____ State: _____ Zip: _____

DME Feedscrew Rebuilding

Most screws can be rebuilt for a fraction of the cost of a new screw. The DME screw rebuilding service includes:

- Welded hardfacing on flight lands, grinding, polishing and straightening
- Hardfacing alloys include Stellite # 12, Colmonoy #56 and Colmonoy #88
- Surface treatment includes nitride and chrome
- Screw sizes from ½" to 8" diameter and up to 140" in length
- Drive end, root or tip end threads can be repaired

Call DME for a quote or send us your feedscrew for a free inspection.
Or complete the form on the next page and send it to DME.



Injection Screw Design Quote Request Form

Please thoroughly complete this form and fax (888-808-4363) or email (DME@dme.net) to receive a quote.

ONLINE FORM

Company: _____ Account Number: _____
Contact: _____ PO #: _____ Job # _____
Address: _____ Phone: _____
City: _____ State: _____ Fax #: _____
Zip: _____ E-mail: _____
Country: _____

Specify: ☐ Improvement Process ☐ New Project ☐ Screw Repair

1. Machine Information

OEM: _____ Type: _____ Machine Age: _____
Nominal Screw O.D.: _____ in/mm L/D: _____ :1
Max. Screw Stroke: _____ in/mm Drive: ☐ Electric ☐ Hydraulic
Max. Screw RPM / KPM: ____ in/mm Max. Torque: _____ ft. lb. nm.

ELECTRONIC QUOTE REQUEST FORM
or visit www.dme.net/rfq

2. Resin Information

Type: _____ Material No.: _____ Manufacturer: _____
MFI: _____ Filler: _____ % Additives: _____
☐ Color ☐ Master Batch ☐ Powder ☐ Liquid

3. Existing Problems:

☐ Recovery ☐ Quality ☐ Temperature ☐ Corrosion
☐ Wear Of – ☐ Screw Flights ☐ Screw Root ☐ Screw Tip
Please be specific: _____

4. Expectation:

Recovery: _____ Oz. per Sec. / Grams per Sec.
Dispersion: _____ (Mixing Devices Mandatory)
Change of Max. Shot Size Required ☐ Yes ☐ No

5. Existing Equipment Information:

Mixing Device: ☐ Yes ☐ No ☐ (Located) Transition ☐ Metering
Describe Mixing Device: _____

6. Process Information

Shot Size: _____ oz. / grams Existing Recovery Time: _____
Existing RPM: _____ Backpressure: _____
Screw Stroke: _____ in/mm Recovery Time Target: _____
Nozzle Shut-Off Available: ☐ Yes ☐ No
What Products are Molded: _____

State other information that may help clarify the request: _____

New Barrels

Van Dorn

Size	Length (in.)	Nitraloy/ Nitrided	CPM-10V
		Part Number	Part Number
30mm	27.55	VDB30N	VDB30
35mm	32.90	VDB35N	VDB35
38mm	34.78	VDB38N	VDB38
40mm	36.37	VDB40N	VDB40
50mm	47.69	VDB50N	VDB50
57mm	52.74	VDB57N	VDB57
65mm ST	58.39	VDB65N	VDB65
65mm BL	58.39	VDB65NB	VDB65B
80mm ST	73.23		VDB80
80mm BL	73.23		VDB80B
90mm ST	81.48		VDB90
90mm BL	81.48		VDB90B
105mm	92.09		VDB105

Size	Length (in.)	Standard Bimetallic	Carbide Bimetallic
		Part Number	Part Number
30mm	27.55	VDB30B	VDB30CB
35mm	32.90	VDB35B	VDB35CB
38mm	34.78	VDB38B	VDB38CB
40mm	36.37	VDB40B	VDB40CB
50mm	47.69	VDB50B	VDB50CB
57mm	52.74°	VDB57B	VDB57CB
65mm ST	58.39°	VDB65B	VDB65CB
65mm BL	58.39	VDB65BB	VDB65CBB
80mm ST	73.23	VDB80B	VDB80CB
80mm BL	73.23	VDB80BB	VDB80CBB
90mm ST	81.48°	VDB90B	VDB90CB
90mm BL	81.48°	VDB90BB	VDB90CBB
105mm	92.09	VDB105B	VDB105CB

NEW BARRELS

NOTES:

ST = Straight

BL = Bell

° = Straight length

New Feedscrews

Van Dorn

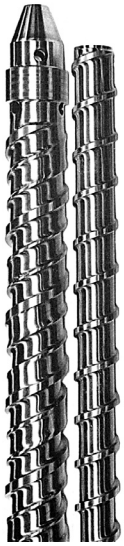
Other Makes and Sizes of Screws Available – Call for Pricing and Availability!!

High quality

Great value

Made to OEM specs

NEW FEEDSCREWS



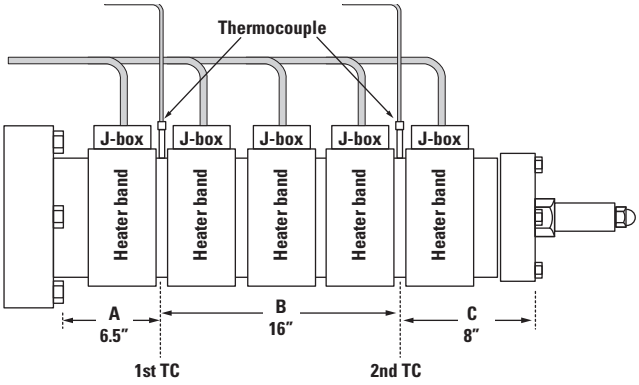
Van Dorn Feed Screws					
Size	Length (in)	Nitraloy/Nitrided	D-2- Heat Treated	Welded	CPM-9V Heat Treated
		Part Number	Part Number	Part Number	Part Number
30mm	31.48"	VDS30N	VDS30D	VDS30W	VDS30V
35mm	35.34"	VDS35N	VDS35D	VDS35W	VDS35V
38mm	36.81"	VDS38N	VDS38D	VDS38W	VDS38V
40mm	38.18"	VDS40N	VDS40D	VDS40W	VDS40V
50mm	49.40"	VDS50N	VDS50D	VDS50W	VDS50V
57mm	54.33"	VDS57N	VDS57D	VDS57W	VDS57V
65mm	59.69"	VDS65N	VDS65D	VDS65W	VDS65V
80mm	75.81"	VDS80N		VDS80W	VDS80V
90mm	85.62"	VDS90N		VDS90W	
105mm	95.87"	VDS105N		VDS105W	

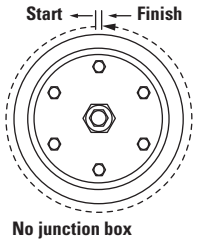
Barrel Blankets

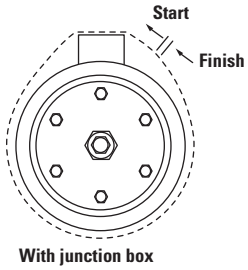
These high-quality insulation jackets provide a simple method of insulating barrels of injection molding machines. Resultant reduction of heat loss dramatically reduces the amount of power required to provide
a consistent barrel temperature and improves startup time and part consistency. Typical payback is six months.

Heat loss cut by a factor of 10 to 15!
Heat loss for a barrel operating in ambient temperature of 70°F with a barrel temperature of 600°F:
With no insulation ..... 660 Watts/Sq. Ft.
With 1" thick insulating jacket ..... 54 Watts/Sq. Ft.

BARREL BLANKETS







To determine width of jackets required:
1. Start from rear of barrel
2. Measure from rear to 1st thermocouple
3. Measure to next TC, etc.

In the example above, a 6 1/2" jacket, plus one 16" and one 8" wide jackets, are required. Note that 4 jackets 4" wide can be used to substitute the 16" wide jacket.

To determine diameter of jackets required:
1. Measure the circumference of the O.D. of the heater bands, including junction box.
2. Divide by 3.14 to determine diameter.
3. Round up to nearest inch.

For example, an outside diameter of 27", divided by 3.14, gives a diameter of 8.5"; use 9" dia. jackets.

Specifications:

Hot face (inside fabric): Silica Fabric, 1/16" thick; 2000°F continuous. Thermal characteristics exceed asbestos materials and provide excellent working capacity beyond that of fiberglass.

Cold face (outside fabric): Fiberglass cloth, 1/64"; 500°F.
Outer coating is strong, flexible and will repel melt and drool. Can be easily cleaned.

Insulation: Ceramic Fibre, 1" thick; 2300°F. Non-asbestos, withstands extreme heat for prolonged periods and has excellent insulation characteristics.

Straps: Same tough impregnated material as outer fabric.

Closure: High-temp Velcro with Nomex loop. High shear strength, temperature-resistant and designed for use in repeated cycle applications.

Buckles: Nickel-plated steel wire with loose roller.

Outer diameter of barrel and bands	Length	Part Number	Reference Number
4	2"	**BB4 × 2**	BIJ105
	4"	**BB4 × 4**	BIJ1010
	6"	**BB4 × 6**	BIJ1015
5	2"	**BB5 × 2**	BIJ125
	4"	**BB5 × 4**	BIJ1210
	6"	**BB5 × 6**	BIJ1215
6	2"	**BB6 × 2**	BIJ155
	4"	**BB6 × 4**	BIJ1510
	6"	**BB6 × 6**	BIJ1515
7	2"	**BB7 × 2**	BIJ175
	4"	**BB7 × 4**	BIJ1710
	6"	**BB7 × 6**	BIJ1715
8	2"	**BB8 × 2**	BIJ205
	4"	**BB8 × 4**	BIJ2010
	6"	**BB8 × 6**	BIJ2015
9	2"	**BB9 × 2**	BIJ225
	4"	**BB9 × 4**	BIJ2210
	6"	**BB9 × 6**	BIJ2215
10	2"	**BB10 × 2**	BIJ255
	4"	**BB10 × 4**	BIJ2510
	6"	**BB10 × 6**	BIJ2515
11	2"	**BB11 × 2**	BIJ275
	4"	**BB11 × 4**	BIJ2710
	6"	**BB11 × 6**	BIJ2715
12	2"	**BB12 × 2**	BIJ305
	4"	**BB12 × 4**	BIJ3010
	6"	**BB12 × 6**	BIJ3015

End Caps

Make	Bore Size	O.D. Diameter
Boy	24M	2.952
Boy	28M	2.952
Boy	32M	2.952
Boy	38M	3.740
Cincinnati	1.312″	5.000
Cincinnati	1.312″	6.500
Cincinnati	1.625	5.500
Cincinnati	2″	6.500
Cincinnati	2″	7.000
Cincinnati	2.5″	8.000
Cincinnati	2.75″	8.000
Cincinnati	3.25″	9.000
Cincinnati	3.5″	9.500
Cincinnati	4.5″	13.000
Cincinnati	5.25″	13.000
Cincinnati	6″	14.500
HPM	2″	6.000
Newbury	1″	3.500
Newbury	1.25″	4.000
Newbury	1.375	4.000
Newbury	1.75″	4.000
Newbury	2″	5.000
Newbury	2.25″	5.000
Nissei	32M	4.565
Nissei	36M	4.725
Nissei	45M	4.725
Nissei	56M	5.512
Nissei	63M	5.901
Nissei	71M	6.299
Reed	2″	4.750
Reed	3″	6.492
Toshiba	50M	2.951
Toshiba	100M	10.250
Toyo	28M	1.960
Toyo	36M	2.835
Toyo	40M	2.835
Toyo	50M	3.425
Toyo	55M	3.425
Toyo	68M	7.285
Toyo	75M	7.285
Van Dorn	30M	3.000
Van Dorn	35M	3.630
Van Dorn	38M	3.630
Van Dorn	40M	3.990
Van Dorn	50M	5.250
Van Dorn	57M	5.250
Van Dorn S	65M	5.250
Van Dorn B	65M	5.750
Van Dorn S	80M	6.750
Van Dorn B	80M	7.500
Van Dorn S	90M	8.260
Van Dorn B	90M	9.500

S – Straight, B – Bell

END CAPS

Our end caps are made of the finest, long-wearing steels. DME will consult with you on your special design requirements.

The following is a partial listing of more common makes and sizes.

Available in 4150 and H13.

For corrosive environments, DME offers stainless; please call for quote.

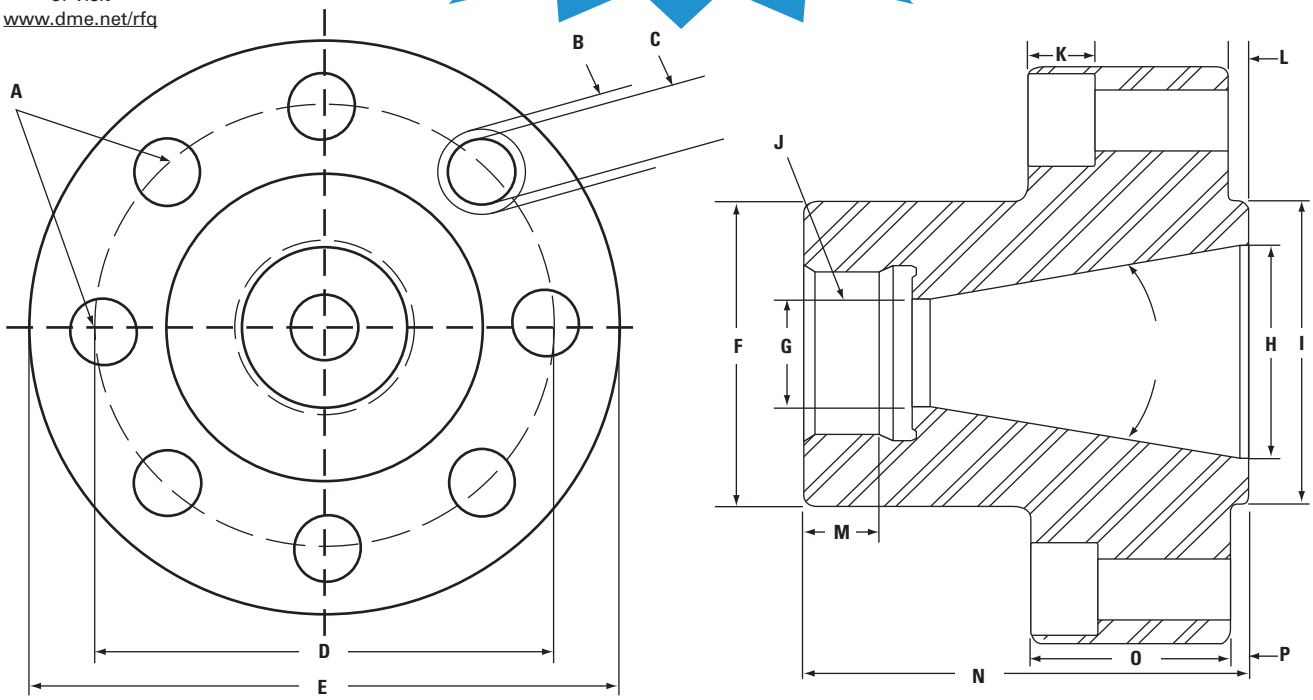
Don't see your make or size? Call DME or use the worksheet on the following page!

ONLINE FORM

ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq

Use this handy worksheet for a quick quote from one of our knowledgeable salespeople.



A. Number of bolt holes _____

B. Counter bore dia. (if any) _____

C. Bolt hole diameter _____

D. Bolt circle diameter _____

E. Flange diameter _____

F. Nozzle support diameter _____

G. Bore diameter _____

H. Rear opening _____

I. Pilot diameter _____

J. Thread type _____

K. Counterbore depth (if any) _____

L. Depth of straight bore _____

M. Depth of female thread _____

N. Overall length _____

O. Flange width _____

P. Length of pilot _____

Q. Cone angle _____

R. Surface treatment _____

For a quick quote, please fill out the worksheet and fax to 888-808-4363.

Company: _____
Account Number: _____
Address: _____
City: _____
State/Zip: _____

Contact Name: _____
Phone: _____
Fax : _____
E-mail: _____

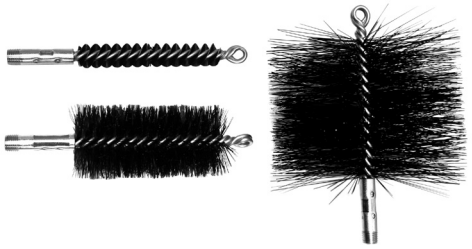
Barrel Brushes

Barrel Cleaning Brushes

Barrel Cleaning Brushes

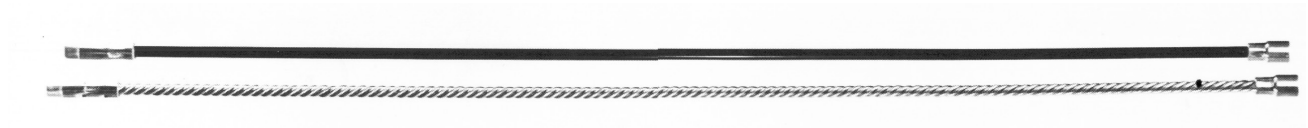
- Double-spiral carbon steel
- Brush length: 4 1/2″
- Overall length: 8″
- 1/4″ NPT nipple

High Carbon Double Spiral



Inch Sizes			Metric Sizes		
Part Number	Diameter	Wire Size	Part Number	Diameter	Wire Size
BCB075	3/4″	.012	BCB18M	18 MM	.012
BCB100	1″	.012	BCB22M	22 MM	.012
BCB125	1 1/4″	.012	BCB24M	24 MM	.012
BCB150	1 1/2″	.012	BCB27M	27 MM	.012
BCB175	1 3/4″	.012	BCB30M	30 MM	.012
BCB200	2″	.012	BCB32M	32 MM	.012
BCB225	2 1/4″	.012	BCB35M	35 MM	.012
BCB250	2 1/2″	.012	BCB38M	38 MM	.012
BCB275	2 3/4″	.012	BCB40M	40 MM	.012
BCB300	3″	.012	BCB45M	45 MM	.012
BCB325	3 1/4″	.012	BCB50M	50 MM	.012
BCB350	3 1/2″	.012	BCB55M	55 MM	.012
BCB375	3 3/4″	.012	BCB57M	57 MM	.012
BCB400	4″	.012	BCB60M	60 MM	.012
BCB450	4 1/2″	.012	BCB65M	65 MM	.012
BCB600	6″	.012	BCB67M	67 MM	.012
			BCB70M	70 MM	.012
			BCB80M	80 MM	.012
			BCB90M	90 MM	.012
			BCB105M	105 MM	.012
			BCB115M	115 MM	.012

INCH BARREL BRUSHES
METRIC BARREL BRUSHES

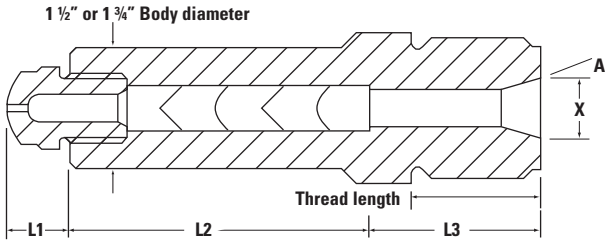


Extension Rods

Part Number	Description
FER3*	3′ Fiberglass Extension
TER3*	3′ Twisted Wire Extension
HER3	Handle For Ext. Rods

EXTENSION RODS

* Rods can be connected end to end for longer reach.



Standard Removable Tip or Oversize Tip for larger applications.

MIXING NOZZLES

B

What It Does

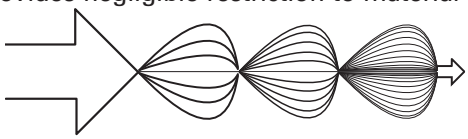
The Motionless Mix Nozzle incorporates the Motionless Inline Mixing elements- 5 or 6 stainless steel elements are inserted in a special nozzle recess. These elements offer mathematically predictable layer generation resulting in superior melt mixing. Less dry coloring or color concentrate is required to obtain uniform dispersion. In addition, a more homogenous melt results. Quick payback is realized in savings of color concentrate and/or dry coloring and faster cycling due to lower average melt temperature.

Mixing Principle

The Motionless Mix consists of a series of mixing elements enclosed in a specially machine Nozzle Body. There are no moving parts and elements can easily be removed for cleaning. Element ends are shaped such that adjacent elements form a tetrahedral chamber. Four (4) holes bored in each element are at oblique angles so that material near the periphery on the inlet side of the element emerges near the center on the outlet side. Because of this unique concept, the average 5-element assembly will provide 1,024 (6 elements = 4,096) generated layers in the mixing process at point of ejection. This concept is considerably advanced over the older style nozzle mixers incorporating a series of blending devices (more appropriate for low-pressure applications).

Advantages

Advantages are numerous; however, those most pertinent to the average injection molder include considerable savings on cost of dry coloring and/or color concentrate and faster cycle times. Savings in dry coloring and color concentrates average 10% to 20% in screw-type machine applications. Faster cycling results from thermally more homogenous melt stream and faster screw recovery time (much of the mixing requirements is attended to by the nozzle, requiring less mixing by the screw). Due to smooth flow path and no mixing parts, the nozzle is entirely reliable and provides negligible restriction to material flow.



Configuration	Dia. of Elements	X-Section of Flow	Equivalent Orifice	Application
Style A - 5 elements 1½" Body	⅝"	.038 sq in	.22"	For small machines or medium-sized machines working at less than capacity on common materials. Best with color concentrate or color compound.
Style B - 6 elements 1½" Body	⅝"	.038 sq in	.22	For small and medium-sized machines molding dry color, or where there is ample injection pressure reserve and maximum dispersion required.
Style C - 5 elements 1½" Body	13⁄16"	.062 sq in	.28"	For medium and large machines molding color concentrate or color compound. There is relatively little pressure drop with this style.
Style D - 6 elements 1½" Body	13⁄16"	.062 sq in	.28"	For medium and large machines molding dry color or where absolute maximum dispersion is required.
Style E[1] - 5 elements 1¾" Body	1"	.093 sq in	.34"	For the most demanding applications, such as large shots being injected rapidly, high hourly throughput, or where minimum pressure drop can be tolerated.
Style F[1] - 6 elements 1¾" Body	1"	.093 sq in	.34"	For the most demanding applications, maximum mixing action and minimum pressure drop.

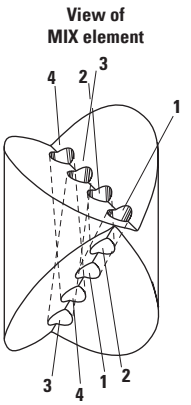
[1] Requires 1¾" nozzle body diameter and "KN" Series tip

Mixing Nozzles

Iso-Mix

Forced radial mixing is one of the fundamental reasons for the superior performance of the Motionless Mix Nozzle. The drawing below right shows that outer streams 1 & 4 emerge on the inside, whereas inner streams 2 & 3
migrate to the outside. The process is repeated as material flows into a tetrahedral cross section between elements resulting in positive cross blending of any temperature and color gradients in the polymer melt stream.

Elements	1	2	3	4	5	6
Layers generated	4	16	64	256	1024	4095



Dimensions & Ordering Data

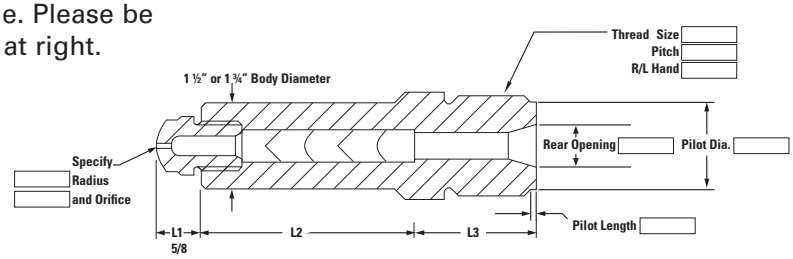
The minimum length of a motionless mix nozzle is dependent on:

1. The length of mixing elements
2. The rear opening diameter and entry angle
3. Nozzle tip length

The following information will help with product selection; however please call our technical sales line. Please be prepared with information in the drawing at right.

$$L1 = \frac{\text{Tip Length .625" standard}}{\text{(.94" for style E F and KN tips)}}$$

$$L3 = \frac{X - 0.5" \times \text{cotangent A} + .5"}{2}$$



For an indication of minimum overall length, simply calculate L3, select and add element length L2 and add tip length L1.

For example:

A nozzle with a rear opening of .75" (X)

Entry angle of 10 degrees (A)

Element type "C"

Tip length .625"

L1 = 0.625"

L2 = 4.06"

$$L3 = \frac{(.75 - .5 \times 5.671) + .5" = 1.293"}{2}$$

Nozzle length = 0.625 + 4.06 + 1.293" = 5.978"

The required minimum length of nozzle assembly a is 6"

(the next length longer than 6.103")

Typical rear opening angles and respective cotangents are:

Degrees		Cotangent
10	=	5.671
15	=	3.732
30	=	1.732

Nozzle Style	Length of Elements	L2
A	2.63	3.44
B	3.25	4.06
C	3.31	4.12
D	4.06	4.87
E	4.22	5.03
F	5.22	6.03

Radius sizes:

MIXING NOZZLES

B

Package Includes – Nozzle Body, Tip (gen. purpose) & Full Set of Elements

Element Diameter		5/8″		13/16″		1″	
Number of Elements		5	6	5	6	5	6
Thread	OAL						
1-3/4″ × 8 (44mm) dia. with 1/2″ or larger rear opening; for threads smaller than 1-3/4″ × 8, contact DME	6″	MN50A6	MN50B6	MN50C6	–	–	–
	8″	MN50A8	MN50B8	MN50C8	MN50D8	MN50E8	MN50F8
	10″	MN50A10	MN50B10	MN50C10	MN50D10	MN50E10	MN50F10
	12″	MN50A12	MN50B12	MN50C12	MN50D12	MN50E12	MN50F12
1-7/8″ to 2-61/64 (48mm to 75mm) dia. with 1/2″ or larger rear opening	6″	MN51A6	MN51B6	MN51C6	–	–	–
	8″	MN51A8	MN51B8	MN51C8	MN51D8	MN51E8	MN51F8
	10″	MN51A10	MN51B10	MN51C10	MN51D10	MN51E10	MN51F10
	12″	MN51A12	MN51B12	MN51C12	MN51D12	MN51E12	MN51F12
3″ to 3-1/8″ (76mm to 80mm) dia. with 1/2″ or larger rear opening	6″	MN70A6	MN70B6	MN70C6	–	–	–
	8″	MN70A8	MN70B8	MN70C8	MN70D8	MN70E8	MN70F8
	10″	MN70A10	MN70B10	MN70C10	MN70D10	MN70E10	MN70F10
	12″	MN70A12	MN70B12	MN70C12	MN70D12	MN70E12	MN70F12

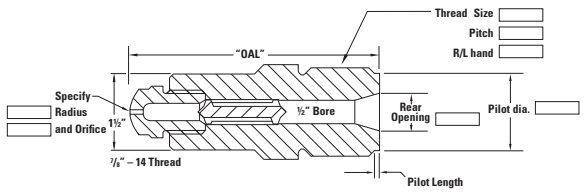
Specify the following when placing your order:
1. Make and model of machine
2. Nozzle thread detail and length
3. Nozzle rear opening
4. Tip radius and orifice

Options and Spares:
1. Thermocouple hole on hex flat
2. Replacement Motionless Mix Elements (full set)

	Part Number
Style A (5 elements 5/8″ dia.)	ISOMXA
Style B (6 elements 5/8″ dia.)	ISOMXB
Style C (5 elements 13/16″ dia.)	ISOMXC
Style D (6 elements 13/16″ dia.)	ISOMXD
Style E (5 elements 1″ dia.)	ISOMXE
Style F (6 elements 1″ dia.)	ISOMXF

TRU Filters

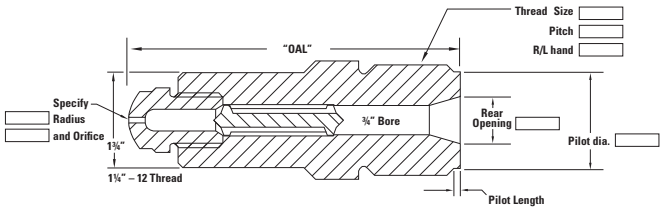
Style A



For Small Shots

For shot size under 16 oz. when molding low viscosity, unfilled materials; 9⁄16" diameter filter plug with .015" clearance for filtering out contaminants as well as mixing. Do not use with nozzle orifice larger than 3⁄16".

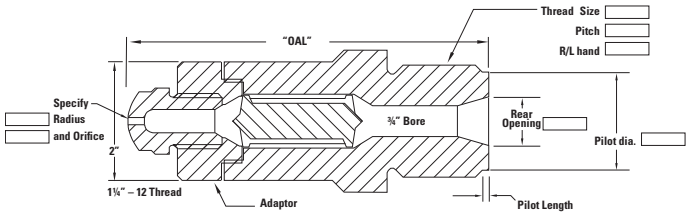
Style B



For Medium Shots

Recommended for most molding applications. Suitable for shot sizes up to 32 oz. (generally used with 10 oz. to 32 oz. shots) of medium- to low- viscosity unfilled materials; 7⁄8" diameter filter plug and 3⁄4" dia. nozzle flow path. Uses standard KN series tips with 1 1⁄4"–12 thread. Available with .015" filter gap clearance.

Style C

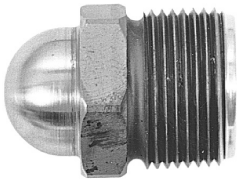


For Large Shots

Recommended only for shot sizes in excess of 30 oz. of medium- to low- viscosity unfilled materials; 28.6mm diameter filter plug and 19mm diameter flow path. Adapter permits use of standard KN series tips with 1 1⁄4"–12 thread. Available with .015" filter gap clearance as standard. No restrictions to nozzle orifice size.

TRU FILTERS

Length of filter element:
Style A: 1 1⁄2"
Style B: 3 1⁄2"
Style C: 6"



Styles B & C require oversize KN series tip with 1 1⁄4"–12

TRU Filter plugs consist of blind holes with melt entering from screw end and additional blind holes with melt exiting to mold (or nozzle orifice). A 0.015″ clearance space- between nozzle I.D. and plug O.D.,-provide filtering action to prevent contaminants from reaching the molded part.

- Easily removed (and replaced) for cleaning
- Provides excellent filtering for particles greater than 0.0–15″
- Extended filter area provides long operation cycles before removal and cleaning are required
- Provides additional benefit of significant mixing of melt stream with minimum back pressure

1-¾" (44mm) with ½" or Larger Rear Opening	
OAL	Part Number
5″	TN1☐5
6″	TN1☐6
7″	TN1☐7
8″	TN1☐8
9″	TN1☐9
10″	TN1☐10
12″	TN1☐12

1-⅞" to 2-61/64" (48mm to 75mm) with ½" or Larger Rear Opening	
OAL	Part Number
5″	TN2☐5
6″	TN2☐6
7″	TN2☐7
8″	TN2☐8
9″	TN2☐9
10″	TN2☐10
12″	TN2☐12

Specify the Following when Placing your Order:

1. Complete information within relevant drawing on previous page
2. Make and model of machine
3. Nozzle thread detail and length
4. Nozzle rear opening
5. Tip radius and orifice
6. Replace ☐ in table with filter style (A, B or C) to complete part number

Options:

1. TC hole on hex flat
2. Extended tips available
3. Heater bands available for all nozzles Contact DME for proper size and

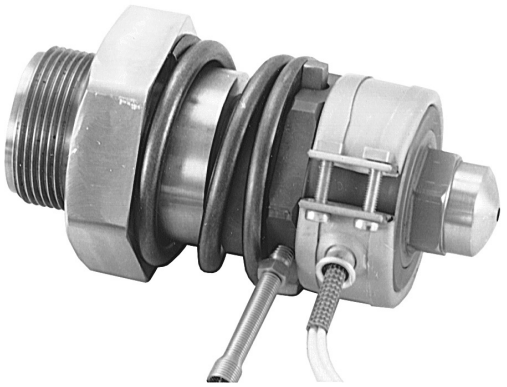
Replacement Filter Plugs	
Style	Part Number
A	TFP1
B	TFP2
C	TFP3

Shut-Off Nozzle

Improved design uses wear-resistant particle metallurgy materials in critical areas.

1. Completely mechanical, automatic operation
2. No internal springs
3. Eliminates cold slugs
4. Controllable back flow during injection
5. Reduces flashing
6. Precise pressure control during cure
7. Positive shut-off prevents drooling
8. Increases production up to 34%

Note: Pressures are in lbs. per sq. inch of plastic melt. In most cases the hydraulic pressure of the machine will be 1/10 of the above values. It should be noted however, that the hydraulic oil to plastic ratio is not always 1/10.



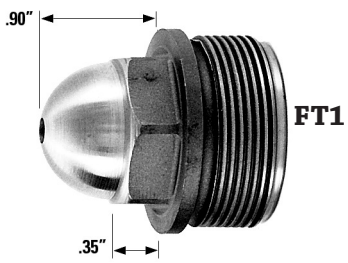
Cracking Pressure
(Maximum screw back pressure) 1800 psi

External Spring—External spring-activated shut-off pin. During injection, material flow caused by injecting force overcomes spring tension, thereby pushing shut-off pin away from seat. During screw recovery and idle, the spring tension forces the pin forward restricting material flow.

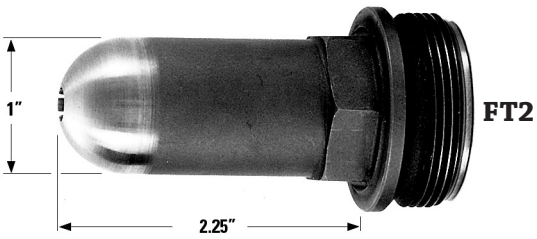
Shut-Off Pin—Externally activated shut-off pin permits unrestricted material flow during injection. Completely seals off flow at point of removable tip seat during screw recovery and idle. Eliminates drool and stringing.

Replaceable Tip—Special hardened tool steel tip can be changed in seconds. Reverse taper nylon design. Available with choice of radius and orifice- 1/8", 5/32" and 3/16". Be sure to specify when ordering.

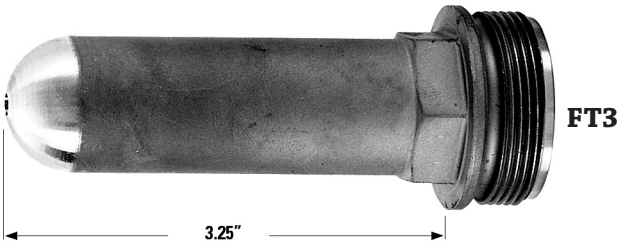
Automatic Operation—Operation is fully automatic and mechanical, with activating force derived from natural machine action. During injection, the material flow and pressure force the shut-off pin backward, thereby overcoming spring tension through pin extension. Material flows unrestricted into mold. As soon as injection pressure is released, the tension of the spring forces pin extension and also the shut-off pin forward, restricting material flow. Tip has reverse taper design; hence, residue material is ejected with the finished article, eliminating the possibility of cold slugs and strings.



FT1



FT2



FT3

Tip Thread =36/1.5mm

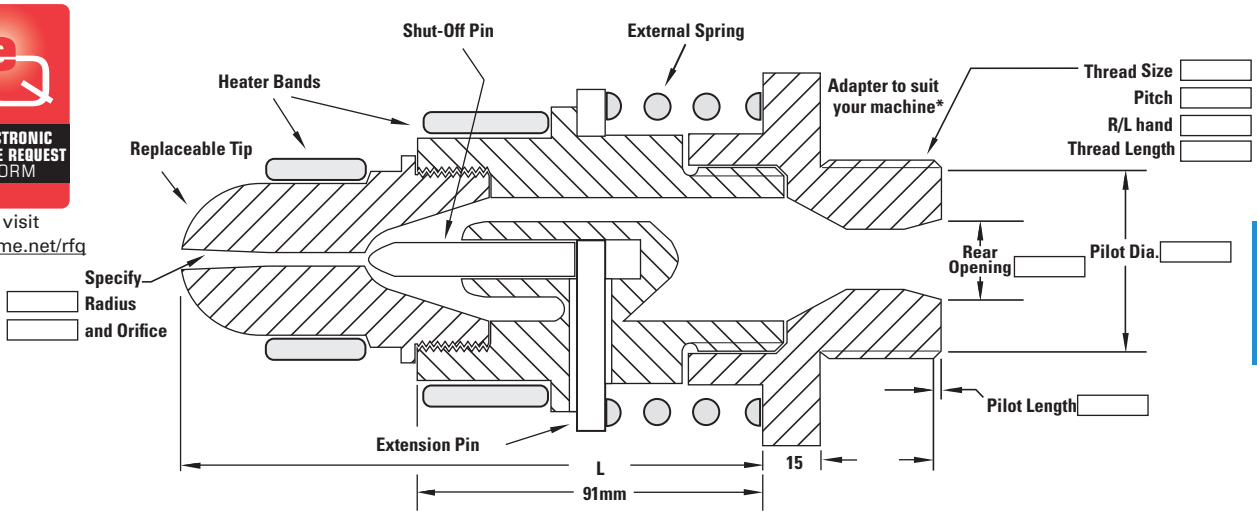
Warranty

The Shut-Off Nozzle uses wear-resistant particle metallurgy materials in the critical wear areas of the pin and insert and will provide long life when molding regular polyamides, acrylics and similar relatively normal non-abrasive materials. For molding extremely abrasive materials such as glass-filled Ryton, DME recommends a Shut-Off Nozzle of similar design made of wear-resistant CPM9V. Contact DME for price and delivery!

ONLINE FORM

ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq



B

Shut-Off Nozzles

Includes complete assembly (Body, Tip, External Spring, Shut-Off Pin, Pin Extension and Adapter to suit your machine)

Item Description
Threads up to 2″ (50mm) diameter
Threads over 2″, to 2 ¾″ (50mm to 70mm) dia.

Shut-Off Nozzle Replacement Parts	
Item Description	**Part Number**
External Spring	SPG2A
Shut-Off Pin	
1″ length	OPSOPA
2″ length	OPSOP2
3″ length	OPSOP3
Adapter up to 50mm to suit your machine	SOADA*
Nozzle Tips	
Style A	FT1
Style B	FT2
Style C	FT3

How to Order

1. Complete requested information in drawing above
2. Specify tip length or style (FT1, FT2 or FT3)
3. Specify radius and orifice of tip

*Identify thread detail, thread length and rear opening.

Company: _____ Contact Name: _____
Account Phone:
Number: _____
Address: _____ Fax : _____
City: _____ E-mail: _____

Mini-Shut™ Automatic Shutoff Nozzle Tip

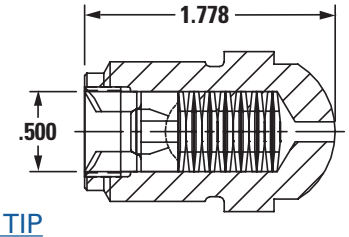
Control of the melting process depends on a number of factors including the proper screw and NRV design, and setting variables such as back pressure, barrel temperatures, screw speed and melt decompression. The process becomes more stable and many surface imperfections obsolete by eliminating melt decompression.

Introducing the Mini-Shut™ Automatic Shutoff Nozzle Tip

The tip, seat and poppet are made from 4140 tool steel and the springs are made from high-temperature alloy.

- Eliminates need for melt decompression
- Eliminates drooling
- Eliminates stringing
- Easy to install and remove
- Inexpensive
- Fits on virtually all nozzle bodies
- Designs for all machine sizes and applications
- Operate the clamp and screw simultaneously
- On-the-shelf stock item
- Low pressure drop

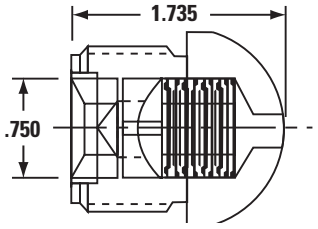
Small Bore Mini-Shut™ Automatic Shutoff Nozzle Tip



MINI AUTOMATIC SHUTOFF NOZZLE TIP

Part Number	Length	Radius	Orifice	Thread
MS50-50-125	1.778″	½″	⅛″	⅞-14
MS50-50-156	1.778″	½″	5⁄32″	⅞-14
MS50-50-187	1.778″	½″	3⁄16	⅞-14
MS50-50-250	1.778″	½″	¼	⅞-14
MS50-50-375	1.778″	½″	⅜	⅞-14
MS50-75-125	1.778″	¾″	⅛″	⅞-14
MS50-75-156	1.778″	¾″	5⁄32″	⅞-14
MS50-75-187	1.778″	¾″	3⁄16	⅞-14
MS50-75-250	1.778″	¾″	¼	⅞-14
MS50-75-375	1.778″	¾″	⅜	⅞-14

Large Bore Mini-Shut™ Automatic Shutoff Nozzle Tip



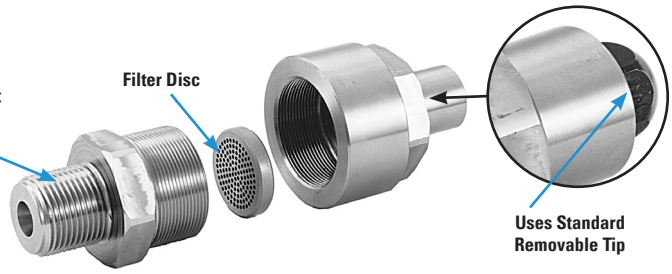
Part Number	Length	Radius	Orifice	Thread
MS75-75-250	1.735″	¾″	¼″	1-¼-12
MS75-75-375	1.735″	¾″	⅜″	1-¼-12

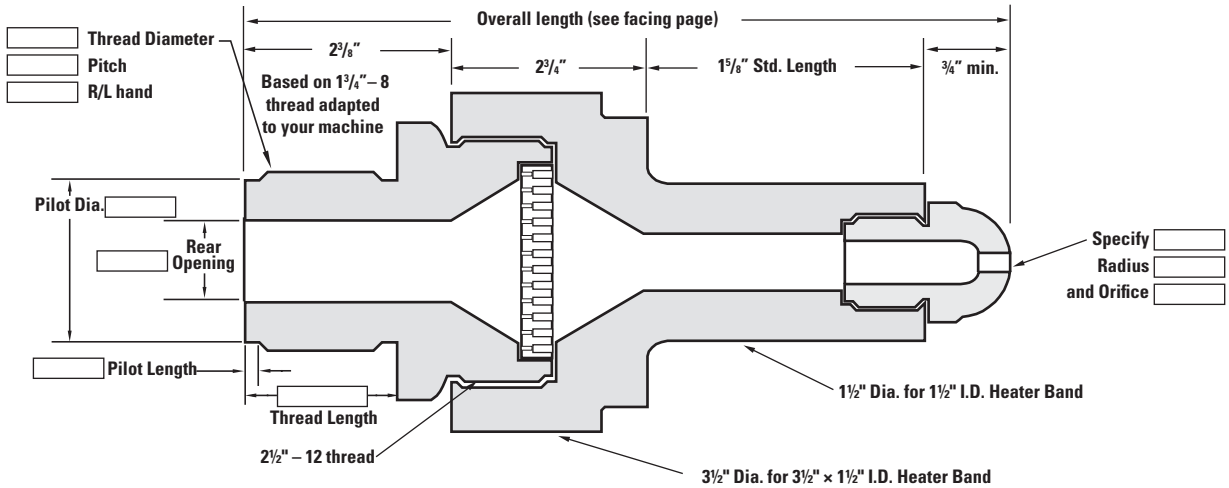
Screen Pack Metal Filter

Tramp Metal Filter for all makes and models of injection molding machines

- Screens out harmful material that may clog orifice of hot runner molds
- 2″ diameter filter disc has 135 holes for maximum removal of contaminants and minimum pressure drop

SCREEN PACK METAL FILTER





Complete assembly includes threaded end mount, 2″ dia × ⅜″ filter disc, removable nozzle and hardened tool steel removable nozzle tip to suit your application.

Assembly MTN1Z or MTN2 consists of:
MTN1A.....Adapter to suit machine
MTN1 .....Nozzle
RTG, RTN or RTT .....Tip
SPFD1 .....Filter

Filter Descriptors
2" .....diameter
5/8" .....thick
135 .....holes
Major dia .....093"
Minor dia .....035"

Machines with Thread Size of 50mm (2″) or Less		Machines with Thread Size Over 50mm (2″)	
Type	**Part Number**	**Type**	**Part Number**
General Purpose or Nylon	**MTN1Z**	General Purpose or Nylon	**MTN2**
ABS Full Taper	**MTN1C**	ABS Full Taper	**MTN2C**

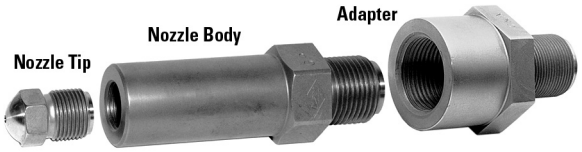
Ordering: Specify radius, orifice and complete information above. For thermocouple hole; specify thread.

Metal Filter

For all makes and models of injection molding machines

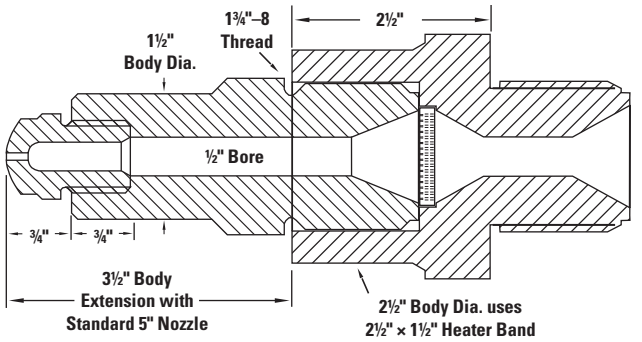
ONLINE FORM

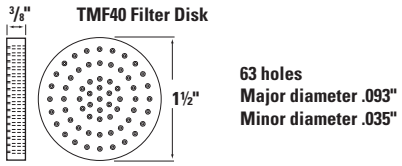
Ordering information for Screen Pack Filters & Adapters:



New design nozzle filter for tramp metal provides all the benefits of huge filtering capacity; from stock shipment gets you running without delay. Uses standard Adapters with thread to suit your machine; standard "VR" nozzles, with 1 3/4" thread and regular replacement tips.

TMF40 Filter Disk

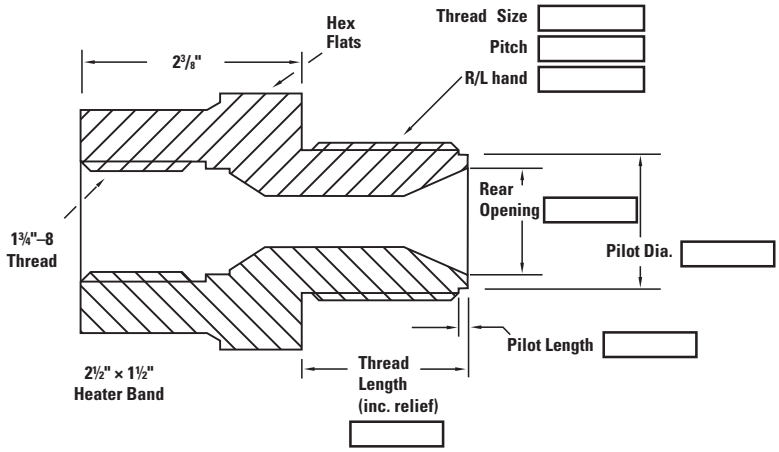




Item	Part Number
Adapter	**TMPA**
Filter	**TMF40**
5" Nozzle (including Tip)	**VR5AT**

General purpose

If your nozzle thread specification is not shown on the following pages, please complete the dimensional data shown above and send to DME [888-808-4363 (fax) or DME@dme.net.]



Send the information requested in the seven boxes above and tip details below to DME.

(a) Radius (flat, 1/2", 3/4", etc.) _____

(b) Orifice (from table) _____

(c) Internal Design
(general purpose, nylon reverse taper or ABS full taper) _____

ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq

Machine Make _____ Model _____ Year _____

Company: _____ Contact Name: _____
Account Number: _____ Phone: _____
Address: _____ Fax : _____
City: _____ E-mail: _____
State/Zip: _____

Simple behind-the-tip filter that installs in minutes

Low-cost, effective device to aid in color dispersion with minimum pressure drop. Disk is located in front portion of nozzle, directly behind nozzle tip or in front portion of nozzle (requires recess in tip or nozzle). Removes fish eyes and unplasticized particles. Also provides general dispersion.

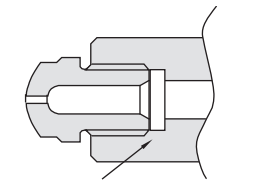
Dispersion Disk Filter

FD001 49 × 0.025″ holes
FD002 37 × 0.031″ holes
FD003 7 × 0.093″ holes

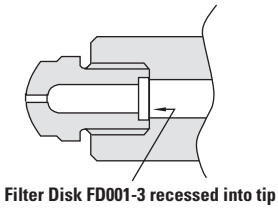
Nozzle Recess

DD1 9 × .045″ holes

METAL FILTERS-DISPERSION DISK

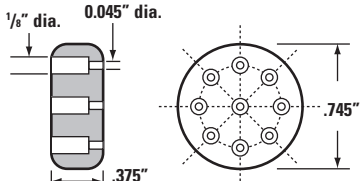


Filter Disk DD1 recessed into nozzle

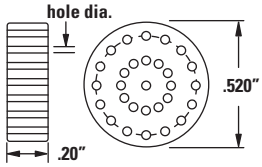


Filter Disk FD001-3 recessed into tip

DD1 Nozzle Recess Filter

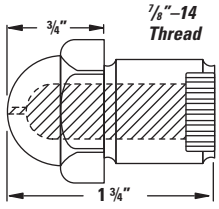


FD001, FD002 & FD003 Nozzle Tip Recess Filter



Filter Type:	Hole Qty.	Dia.
FD001	49	.025″
FD002	37	.031″
FD003	7	.093″

Software Compatibility



FD-type filter disk in machined recess (rear of regular tip)

Recess Tips:

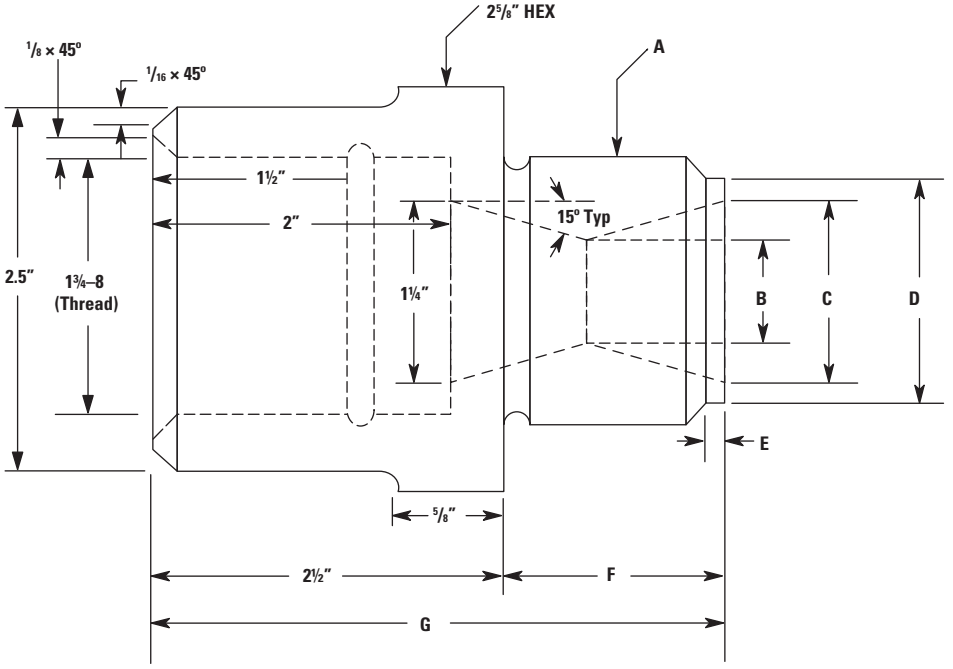
Part Number	Description
RTR1	General Purpose
NTR1	Nylon Taper
ABR1	ABS

Type	No. of Holes	Diameter of Each Hole	Total Area of Holes	Equiv. Orifice	Part Number
Nozzle Recess	9	.045″	.0143 sq. in.	0.135″	**DD1**
Tip Recess	49	.025″	.024 sq. in.	0.175″	**FD001**
Tip Recess	37	.031″	.028 sq. in.	0.189″	**FD002**
Tip Recess	7	.093″	.048 sq. in.	0.250″	**FD003**

Metal Filter Adapter

ONLINE FORM

- Use standard 1 3/4–8 Van Dorn-style nozzle
- Filter Pack made from 507 steel and hardened to 60 HRC
- Filters foreign matter & mixes color
- Split design for easy cleaning
- Large filter capacity
- Specify thread size & make of press



ELECTRONIC QUOTE REQUEST FORM

or visit
www.dme.net/rfq

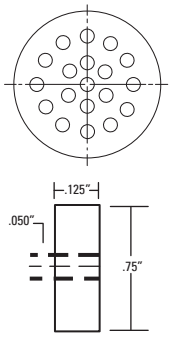
Complete your specifications below and fax (888-808-4363) or email (DME@dme.net).

A = Thread detail _____
B = Through hole _____
C = Rear opening _____
D = Pilot dia _____

E = Pilot length _____
F = Thread length _____
G = Over all length _____

Company: _____
Account Number: _____
Address: _____
City: _____
State/Zip: _____

Contact Name: _____
Phone: _____
Fax: _____
E-mail: _____



Dispersion Disc to fit behind a STANDARD NOZZLE TIP

You asked for it, we have it! Now you can purchase a dispersion disc to fit behind your standard 7/8–14 Replaceable Nozzle Tips!

- No leakage; seals tight
- More convenient
- Improves color mixing
- More effective for removing impurities
- Made in the U.S.A.

Part Number	Dia. Hole
D34-050	0.050″
D34-025	0.025″

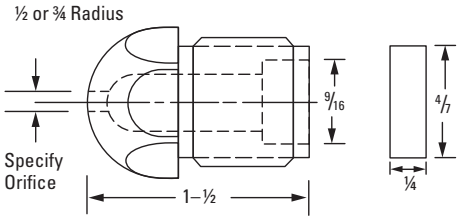
DISPERSION DISCS

9/16 Diameter Dispersion Discs

General Purpose Tip: Part No. RTGD

Nozzle counter bored for dispersion disc.

Order discs installed in a general purpose tip or separately. Available with either .025, .050 or .085 diameter holes. These tips provide quick access, improved color mixing and prevent foreign material passage.



Orfice options: 1/16, 1/4, 1/8, 5/32, 3/8, 3/16, 7/32, 5/16

.085 Dispersion Disc
Part No. D085

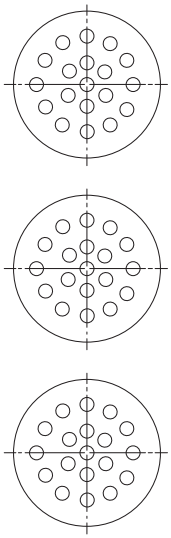
Complete assembly
(Nozzle & Disc) RTGD85

.050 Dispersion Disc
Part No. D050

Complete assembly
(Nozzle & Disc) RTGD50

.025 Dispersion Disc
Part No. D025

Complete assembly
(Nozzle & Disc) RTGD25



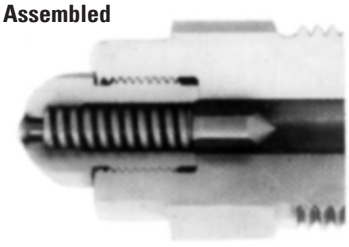
Shutoff Nozzle Tip

- Minimizes nozzle drool and sink patterns
- Installs instantly in all 7/8–14 nozzle bodies (body not included)
- The spring-loaded valve in the nozzle tip restricts material until activated by pressure
- Opens in the direction of the sprue bushing and closes until recycled

SHUTOFF NOZZLE TIP

Part Number	Radius	Orifice	Min. Sprue Bushing
SHUTOFF12-116	½″	1/16″	7/32″
SHUTOFF12-18		1/8″	9/32″
SHUTOFF12-316		3/16″	5/16″
SHUTOFF34-116	¾″	1/16″	7/32″
SHUTOFF34-18		1/8″	9/32″
SHUTOFF34-316		3/16″	5/16″

Assembled

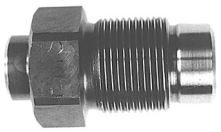


Radius: ½ or ¾ Orifice 1/16, 1/8, 3/16

OEM Replacement Tips

ARBURG

Regular Tips



Extended Tips

Replacement Arburg nozzle tips - 24/1.5mm thread, 8mm rear opening. Solid one-piece nozzles and tips. Made from hardened tool steel, use as replacement for original tips supplied by machine manufacturer. Solid, hardened tool steel. When ordering, specify radius and orifice from table below.

OEM REPLACEMENT TIPS

Tips shown above fit regular Arburg nozzles and barrel end caps.

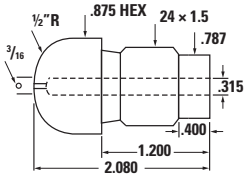
Type	OAL	L	Heater Band	Part Number
General Purpose	2¾″	1½″	1″ × ⅝″	AR2*‡
	3¾″	2½″	1″ × 1½″	AR3*‡
Nylon	2¾″	1½″	1″ × ⅝″	ARN2*‡
	3¾″	2½″	1″ × 1½″	ARN3*‡

Internal Design	Part Number
General Purpose	AR1
Nylon	ARN1

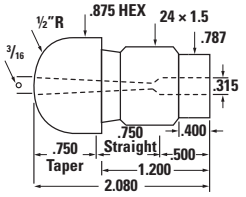
* add corresponding Orifice letter to part number
‡ add corresponding Radius number to part number

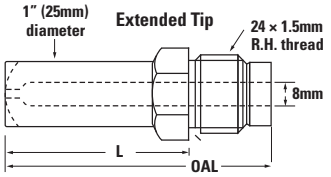
see key to the right for O & R data

General Purpose



Nylon





Orifice and Radius Key

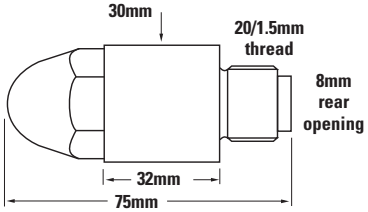
O =			R =
⅛ = A	7/32 = D	⅜ = G	Flat = 0
5/32 = B	¼ = E	**1/16 = H	½ = 5
3/16 = C	5/16 = F		¾ = 7

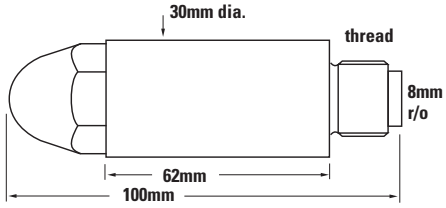
** only available on General Purpose

NISSEI

Part Number	Length
NIS1	75mm
NIS2	100mm

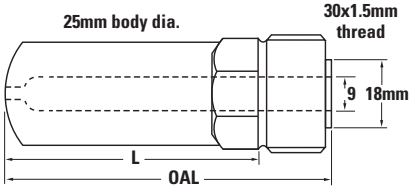
Replacement Nissei nozzle tips. Solid hardened tool steel. When ordering, specify thread, length, radius and orifice. Standard tip used on 2A and 5A machines.

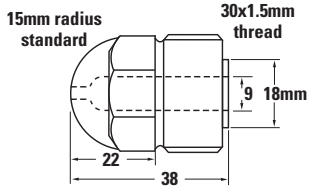




KLOCKNER

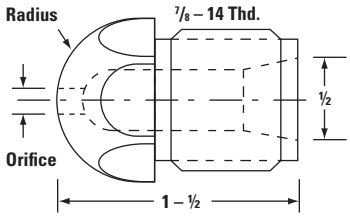
Replacement Klockner nozzle tips. 30/1.5mm thread, 9mm and 1/2″ rear opening. Solid, hardened tool steel. When ordering specify length, radius and orifice.



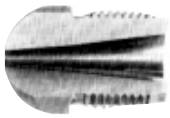


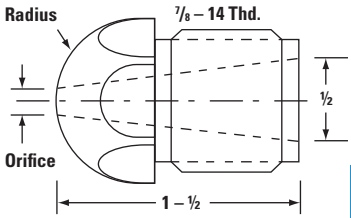
Rear Opening	OAL	Part Number
9mm	38mm	KLCS1
9mm	66mm	KLCS2
9mm	86mm	KLCS3
½″	38mm	KLBS1
½″	66mm	KLBS2
½″	86mm	KLBS3

General Purpose

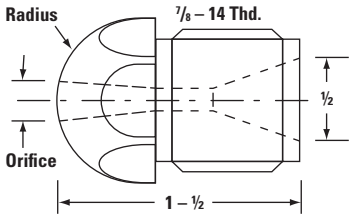


Full Taper





Nylon



B

Chromium Vanadium Tungsten tool steel replacement tips - high-quality and economically priced! Precision crafted and hardened to 46-48 HRC to offer optimum performance under the most demanding applications. Please see pages 166 and 168 for extension tips.

Sizes		Gen. Purpose	Nylon	Full Taper
Radius	Orifice	Part Number	Part Number	Part Number
½″	1/16″	RT15H		
	1/8″	RT15A	NT15A	AB15A
	5/32″	RT15B	NT15B	AB15B
	3/16″	RT15C	NT15C	AB15C
	1/4″	RT15E	NT15E	AB15E
	5/16″	RT15F	NT15F	AB15F
	3/8″	RT15G	NT15G	AB15G
¾″	1/16″	RT17H		
	1/8″	RT17A	NT17A	AB17A
	5/32″	RT17B	NT17B	AB17B
	3/16″	RT17C	NT17C	AB17C
	1/4″	RT17E	NT17E	AB17E
	5/16″	RT17F	NT17F	AB17P
	3/8″	RT17G	NT17G	AB17G

REPLACEMENT HARD TIPS

Extension Hard Tips

46-48 HRC

General Purpose

Chromium Vanadium Tungsten tool steel replacement tips - high-quality and economically priced! Precision crafted to offer optimum performance under the most demanding applications.

Nickel Copper Tips

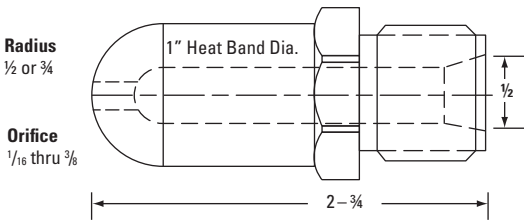
OAL	Nozzle Radius Flat	½″	¾″	Heater Width
2¾″	BRT20*	BRT25*	BRT27*	1″
3¾″	BRT30*	BRT35*	BRT37*	2¼″

*Specify orifice based on table above

Hardened Chrom./Van./Tungsten Tool Steel

OAL	Flat	Nozzle Radius ½″	¾″	Heater Width
2¾″	RT20*	RT25*	RT27*	1″
3¾″	RT30*	RT35*	RT37*	2¼″
5″	RT50*	RT55*	RT57*	3¼″
6″	RT60*	RT65*	RT67*	4¼″

*Specify orifice based on table to the right



EXTENSION HARD TIPS

Orifice

O =		
1/8 = A	7/32 = D	3/8 = G
5/32 = B	1/4 = E	**1/16 = H
3/16 = C	5/16 = F	

** only available on General Purpose

46-48 HRC

Nylon

Nylon Reverse Taper Tool Steel

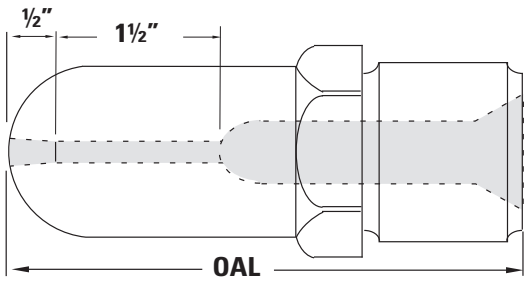
OAL	Nozzle Radius Flat	½″	¾″	Heater Width
2¾″	NT20*	NT25*	NT27*	1″
3¾″	NT30*	NT35*	NT37*	2¼″
5″	NT50*	NT55*	NT57*	3¼″

*Specify orifice based on table above right

Nylon Reverse Taper Nickel Copper Tips

OAL	Nozzle Radius Flat	½″	¾″	Heater Width
2¾″	BNT20*	BNT25*	BNT27*	1″
3¾″	BNT30*	BNT35*	BNT37*	2¼″

*Specify orifice based on table above right



Orifice

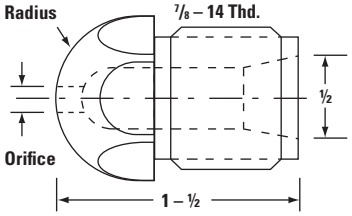
O =		
1/8 = A	7/32 = D	3/8 = G
5/32 = B	1/4 = E	**1/16 = H
3/16 = C	5/16 = F	

** only available on General Purpose

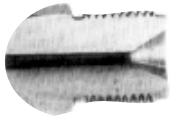
Replacement Soft Tips

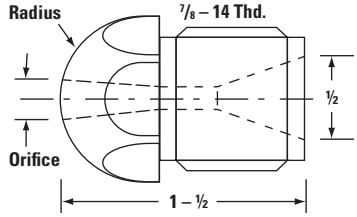
34-36 HRC

General Purpose

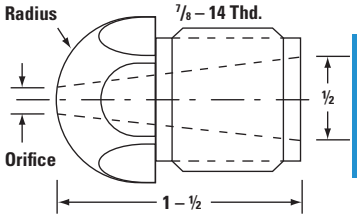


Nylon





Full Taper



Hardened to 34-36 HRC and precision manufactured to offer quality at an affordable price.
Please see pages 166 and 168 for extension tips.

Sizes		G. Purpose	Nylon	Full Taper
Radius	Orifice	Part Number	Part Number	Part Number
1/2"	1/16"	RTG12-116		
	3/32"	RTG12-332		
	1/8"	RTG12-18	RTN12-18	RTT12-18
	5/32"	RTG12-532	RTN12-532	RTT12-532
	3/16"	RTG12-316	RTN12-316	RTT12-316
	1/4"	RTG12-14	RTN12-14	RTT12-14
	5/16"	RTG12-516		
	3/8"	RTG12-38	RTN12-38	RTT12-38
	1/2"	RTG12-12		
3/4"	1/16"	RTG34-116		
	3/32"	RTG34-332		
	1/8"	RTG34-18	RTN34-18	RTT34-18
	5/32"	RTG34-532	RTN34-532	RTT34-532
	3/16"	RTG34-316	RTN34-316	RTT34-316
	1/4"	RTG34-14	RTN34-14	RTT34-14
	5/16"	RTG34-516		
	3/8"	RTG34-38	RTN34-38	RTT34-38
	1/2"	RTG34-12		

REPLACEMENT SOFT TIPS

This product is not compatible with the FD001

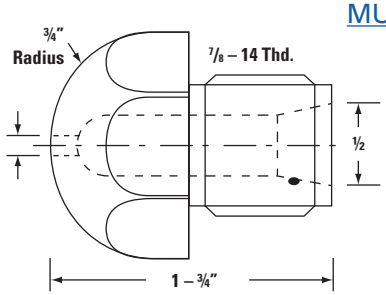
Large Radius "Mushroom" Tip

Extra surface area for a better seal. Fits all standard 7/8-14 thread nozzles.

General Purpose		
Sizes		Part Number
Radius	Orifice	
3/4"	1/8"	RTGM34-18
	3/16"	RTGM34-316
	1/4"	RTGM34-14
	3/8"	RTGM34-38
	1/2"	RTGM34-12

Nylon & Full Taper available by request

MUSHROOM TIPS



Extension Soft Tips

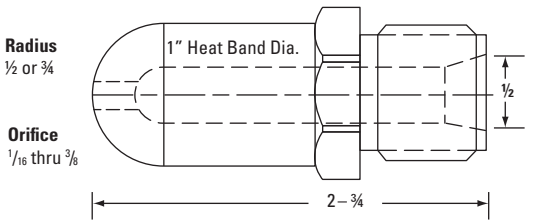
37 HRC

General Purpose		
Part Number	**Length**	**Heater Width**
RTXGR*	2¾″	1″
RTXGR4*	4″	2¼″
RTXGR5*	5″	3¼″
RTXGR6*	6″	4¼″
RTXGR8*	6″	4¼″

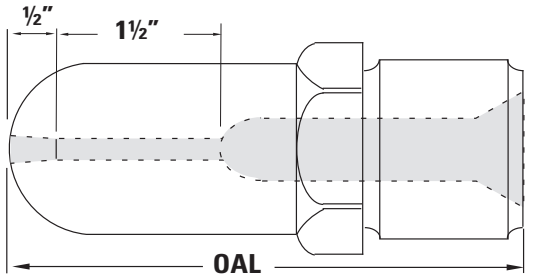
*Specify radius (flat, 1/2″ or 3/4″) and orifice (1/16″, 1/8″, 5/32″, 3/16″, 7/32″, 1/4″, 5/16″, 3/8″)

Standard Nylon		
Part Number	**Length**	**Heater Width**
RTXNR*	2¾″	1″
RTXNR4*	4″	2¼″
RTXNR5*	5″	3¼″
RTXNR6*	6″	4¼″

*Specify radius (flat, 1/2″ or 3/4″) anorifice (1/16″, 1/8″, 5/32″, 3/16″, 7/32″, 1/4″, 5/16″, 3/8″)



EXTENSION SOFT TIPS



Beryllium Replacement Tips

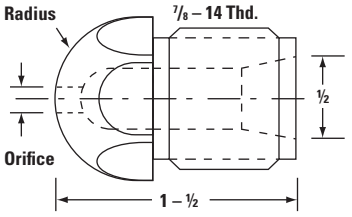
31 HRC

Beryllium - 31 Rockwell "C" Scale Tool Steel

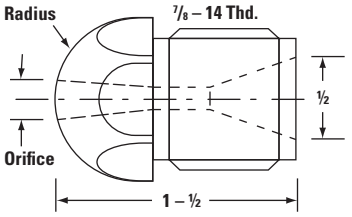
Beryllium provides maximum heat transfer and is perfectly suited to mate with your sprue bushing without causing damage. Reduces tip "freeze-up" and allows molding at lower nozzle temperatures.

BERYLLIUM REPLACEMENT TIPS

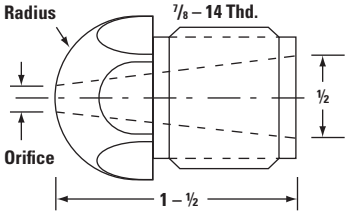
Sizes		G. Purpose	Nylon	Full Taper
Radius	**Orifice**	**Part Number**	**Part Number**	**Part Number**
½″	1/8″	**BRT15A**	**BNT15A**	**BAB15A**
	5/32″	**BRT15B**	**BNT15B**	**BAB15B**
	3/16″	**BRT15C**	**BNT15C**	**BAB15C**
	¼″	**BRT15E**	**BNT15E**	**BAB15E**
¾″	1/8″	**BRT17A**	**BNT17A**	**BAB17A**
	5/32″	**BRT17B**	**BNT17B**	**BAB17B**
	3/16″	**BRT17C**	**BNT17C**	**BAB17C**
	¼″	**BRT17E**	**BNT17E**	**BAB17E**



General Purpose



Nylon



Full Taper

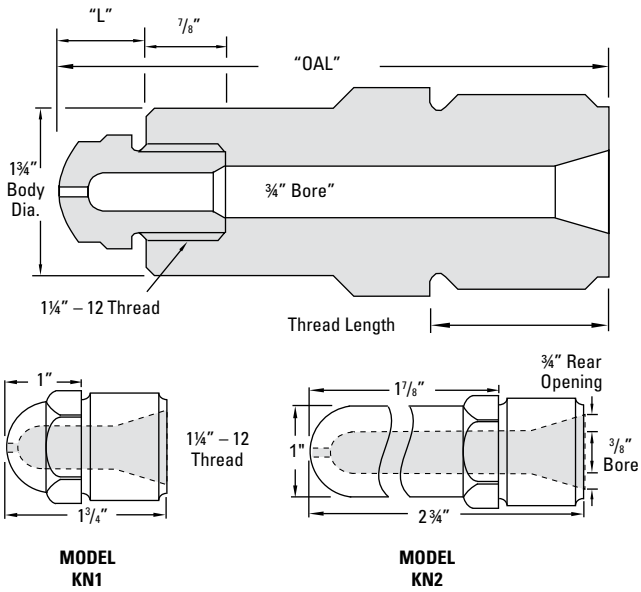
Oversize Nozzle Bodies

For Extra Large Shots

A 3/4" bore provides over double the flow area compared with standard nozzles. Standard nozzles have a 1/2" bore diameter which provides a cross-section flow area of .196 in². These large bore nozzles have a 3/4" bore diameter which provides a full .44 in² flow area, allowing throughput of 2 1/4 times that possible with regular nozzles.

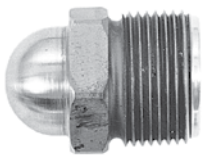
Recommended in place of industry standard 1/2" thru-hole nozzles when molding very large shots. Gradual reduction in cross-sectional area of flow path causes less material turbulence and results in less back pressure. There is also less chance of overheating material due to sudden pressure increase. Available for any make and model machine in lengths from 5" to 20".

B

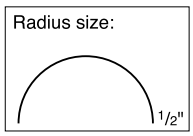


Replacement Tips

3/4" bore provides 2 1/4 times the throughput of regular nozzles



1¼"–12 Thread



Hardened tool steel 48-52 HRC

Orifice	1/16"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"
Part No. Suffix	H	A	B	C	D	E	F	G

1/16" orifice only available in General Purpose Style

Part Number	Radius	OAL	Description
KN15*	1/2"	1.75"	STANDARD TIP L 1"
KN17*	3/4"	1.75"	STANDARD TIP L 1"
KN25*	1/2"	2.75"	O/S EXTENDED TIP L 1.875"

*Add Orifice letter designation from Orfice chart

How to Order:

1. Specify make and model of machine plus style of nozzle
2. Specify radius and orifice options—TC hole on hex flat

Solid Nozzles – Tool Steel

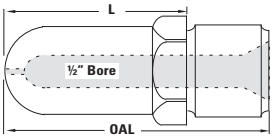
ONLINE FORM

Internal Design

General Purpose

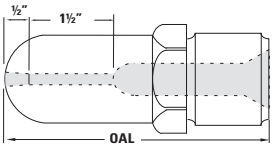
Standard, free-flow internal design General Purpose Nozzle, provides minimum flow resistance and back pressure buildup; ½" diameter flow path unless otherwise stated.

Hardened Chrome Vanadium tool steel for long life



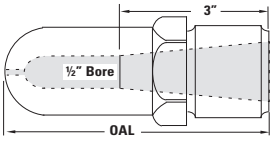
Nylon Reverse Taper

For use with polyamides, acrylics and similar expansive and heat-sensitive materials. Material flows 1½"through 1/8" diameter-restricted throat into 1" long reverse taper. Sprue breaks inside nozzle providing expansion area and reducing drool.



Full Taper - ABS

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and areas of hangup. Recommended large orifices for minimum flow resistance.
Taper 3" longitudinal distance from rear opening to 1/2" internal bore.



Description	Total Length
Thread Dia. up to 2" (50mm)	5"
	6"
	7"
	8"
	9"
	10"
	12"
	14"
	16"
	18"
	20"

Description	Total Length
Thread Dia. 2⅛" to 2¾" (51mm to 69mm)	5"
	6"
	7"
	8"
	9"
	10"
	12"
	14"
	16"
	18"
	20"

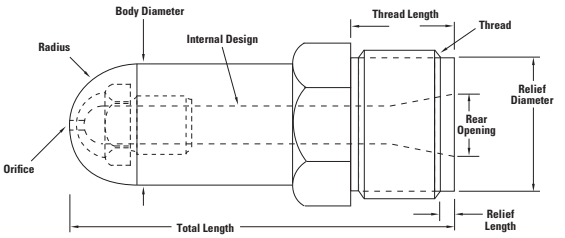
Hardened Chrome Vanadium tool steel polished to mirror finish to provide smooth material flow path. These nozzles will provide far greater life and superior flow characteristics than relatively soft, "T" - condition nozzles.

How to Order:

1. Specify make and model of machine plus style of nozzle.
2. Specify radius and orifice. Options—TC hole on hex flat

ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq



Complete the information below and fax to DME at (248-544-5113) or email to DME@dme.net.

1. Total Length ____
2. Thread Length ____
3. Thread Type (1 1/2" – 12 etc.)
4. Rear Opening ____
5. Body Diameter (1", 1 1/2", 2")
6. Radius (Flat, 1/2", 3/4", 35mm)
7. Orifice ____
8. Internal Design (general purpose, nylon reverse taper or ABS full taper) ____
9. Relief Diameter ____
10. Relief Length ____

MACHINE MAKE: _____ MODEL _____ YEAR _____

Company: _____ Contact Name: _____
Account Number: _____ Phone: _____
Address: _____ Fax : _____
City: _____ E-mail: _____

To determine the proper heater band size to fit your nozzle, simply refer to the "H.B. Code" (A, B, C or D) listed beside the nozzle you are purchasing (pages 175–191), then refer to the table below. For example, a NM6 nozzle body and tip is shown as "N.B. Code B" and would require a 1½" × 2½" heater band. For complete listing of nozzle heater bands, see pages 496–497 of this catalog.

Flange Lock Nozzle Band

Flange Lock Nozzle Band with armor leads.

Wedge Lock Nozzle Band for recessed sprues.

NOZZLE BANDS

Table shows heater band required for each nozzle length. (Find code for your nozzle in listings on following pages.)

Nozzle OAL	N.B. Code				
	A	B	C	D	E
3¾"	1½" × 1"	–	–	–	–
5"	1½" × 2"	1½" × 1½"	1½" × 1"	1½" × ⅝"	–
6"	1½" × 3"	1½" × 2½"	1½" × 2"	1½" × 1½"	1½" × 1"
7"	1½" × 4"	1½" × 3"	1½" × 3"	1½" × 2½"	1½" × 2"
8"	1½" × 5"	1½" × 4"	1½" × 4"	1½" × 3"	1½" × 3"
9"	1½" × 6	1½" × 5"	1½" × 5"	1½" × 4"	1½" × 4"
10"	1½" × 4"	1½" × 4"	1½" × 6"	1½" × 5"	1½" × 5"
	1½" × 3"	1½" × 2½"	–	–	–
12"	1½" × 5"	1½" × 4"	1½" × 4"	1½" × 5"	1½" × 5"
	1½" × 4	(2 pcs.)	(2 pcs.)	1½" × 2½"	1½" × 2"
14"	1½" × 6"	1½" × 5"	1½" × 5"	1½" × 4"	1½" × 4"
	1½" × 5"	(2 pcs.)	(2 pcs.)	1½" × 5"	1½" × 5"
16"	1½" × 6"	1½" × 6"	1½" × 6"	1½" × 5"	1½" × 5"
	(2 pcs.)	(2 pcs.)	(2 pcs.)	1½" × 6"	1½" × 6"
18"	1½" × 5"	1½" × 5"	1½" × 5"	1½" × 5"	1½" × 5"
	(3 pcs.)	(2 pcs.)	(2 pcs.)	1½" × 4"	1½" × 4"
	1½" × 4"	1½" × 4"	(2 pcs.)	(2 pcs.)	–
20"	1½" × 6"	1½" × 6"	1½" × 6"	1½" × 5"	1½" × 5"
	(2 pcs.)	(2 pcs.)	(2 pcs.)	(3 pcs.)	(3 pcs.)
	1½" × 5"	1½" × 4"	1½" × 4"	–	–

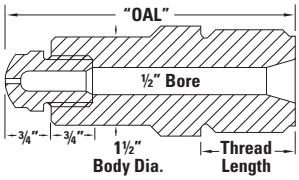
Removable Tip Nozzles

Below is a partial list of machine makes for which we make nozzles.
If you don't see your model, call DME;
we often make nozzles to meet custom specifications!

Advanced
Ankerwerke
Aoki
Arburg
Autojectors
Battenfeld
Beloit
Billion
Bipel
Bone Craven
Boy
Buhler
Butler Smith
Chaun Lih Fa
Chen Hsong
Cincinnati Milacron
Demag
Dematttia
Desma
Edgewick
Engel
Esaco
Fahr Bucher
Fellows
Fortune
Fu Chen Shine
Goldstar
HPM
Herbert
Hull/Meiki
Husky
Idra
IMI
Impco
JSW
Kawaguchi
Klockner
Krauss Maffei
Krupps
Kuasy
Lombard
Metalmec
Meteor
Mir
Mitsubishi
Natco
Negri Bossi
Netstal
New Britain
Newbury
Niigata
Nissei
Oima
Peco
Plastjet
Reed Prentice
Reifenhauser
Sandretto
Shinwa Seiki
Stokes
Stork Reed
Stubbe
Sumitomo
Sungchuan
TMC
Toshiba
Toyo
Trubor
Turner
Unitek
USM/Farrel
Van Dorn
Windsor

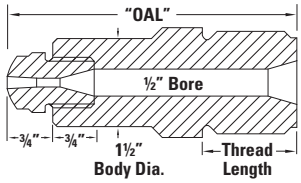
The following pages list some of our more common nozzles

ARBURG



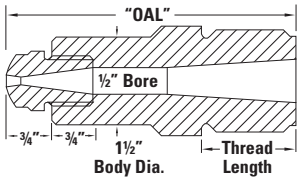
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2" flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

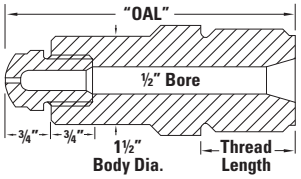
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Arburg					
(A)	24/1.5 RH	10mm	3¾"	AW3	
			5"	AW5	
			6"	AW6	
(A)	30/1.5	24mm	3¾"	AL3	AL3C
			5"	AL5	AL5C
			6"	AL6	AL6C
(A)	35/1.5 (LH/RH)	18mm	3¾"	AR3	AR3C
			5"	AR5	AR5C
			6"	AR6	AR6C
(A)	35/2LH	18mm	3¾"	ABA3	ABA3C
			5"	ABA5	ABA5C
			6"	ABA6	ABA6C
(B)	36/2LH	22mm	3¾"	ABB3	ABB3C
			5"	ABB5	ABB5C
			6"	ABB6	ABB6C
(B)	45/1.5 (LH/RH)	22mm	3¾"	AB3	AB3C
			5"	AB5	AB5C
			6"	AB6	AB6C
(B)	45/1.5 LH	25mm	3¾"	AG3	AG3C
			5"	AG5	AG5C
			6"	AG6	AG6C
(A)	45/1.5	30mm	3¾"	ABF3	ABF3C
			5"	ABF5	ABF5C
			6"	ABF6	ABF6C
(B)	45/2	18mm	3¾"	ABE3	ABE3C
			5"	ABE5	ABE5C
			6"	ABE6	ABE6C
(B)	45/2LH	22mm	3¾"	AA3	AA3C
			5"	AA5	AA5C
			6"	AA6	AA6C
(B)	45/2LH	25mm	3¾"	AC3	AC3C
			5"	AC5	AC5C
			6"	AC6	AC6C
			8"	AC8	AC8C
(B)	45/2LH	30mm	3¾"	AD3	AD3C
			5"	AD5	AD5C
			6"	AD6	AD6C
(B)	50/2 LH or RH	30mm	3¾"	AU3	AU3C
			5"	AU5	AU5C
			6"	AU6	AU6C
			8"	AU8	AU8C

Removable Tip Nozzle Bodies

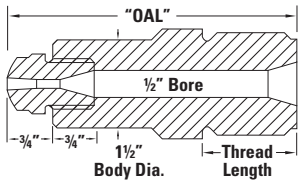
ARBURG BATTENFELD

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Arburg (cont.)					
(B)	50/2LH	35mm	3¾″	AF3	AF3C
			5″	AF5	AF5C
			6″	AF6	AF6C
			7″	AF7	AF7C
(A)	52/2LH	15mm	3¾″	AZ3	AZ3C
			5″	AZ5	AZ5C
			6″	AZ6	AZ6C
			7″	AZ7	AZ7C
(A)	52/2	30mm	3¾″	AP3	AP3C
			5″	AP5	AP5C
			6″	AP6	AP6C
(B)	52/2	35mm	5″	ABD5	ABD5C
			6″	ABD6	ABD6C
(B)	55/2LH	30mm	3¾″	AM3	AM3C
			5″	AM5	AM5C
			6″	AM6	AM6C
(B)	55/2LH	40mm	5″	AH5	AH5C
			6″	AH6	AH6C
			8″	AH8	AH8C
(B)	60/2LH	45mm	3¾″	AK3	AK3C
			5″	AK5	AK5C
			6″	AK6	AK6C
Battenfeld					
(A)	32/2	21mm	3¾″	GN3	GN3C
			5″	GN5	GN5C
			6″	GN6	GN6C
			7″	GN7	GN7C
			8″	GN8	GN8C
(A)	35/2	12mm	3¾″	BSF3	
			5″	BSF5	
			6″	BSF6	
			7″	BSF7	
(B)	35/2	½″	3¾″	BS3	
			5″	BS5	
			6″	BS6	
			7″	BS7	
			8″	BS8	
(A)	35/2	18mm	3¾″	BSD3	BSD3C
			5″	BSD5	BSD5C
			6″	BSD6	BSD6C
			7″	BSD7	BSD7C
			8″	BSD8	BSD8C



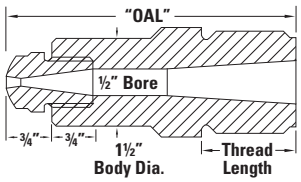
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2″ flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



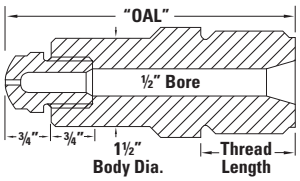
Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

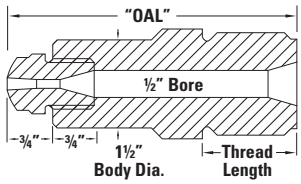
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

BATTENFELD



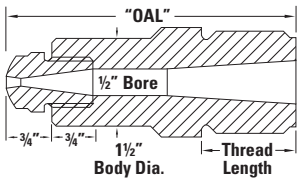
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2" flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

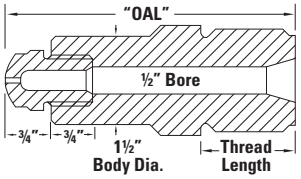
Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Battenfeld (cont.)					
(A)	35/2	¾"	3¾"	**BL3**	**BL3C**
			5"	**BL5**	**BL5C**
			6"	**BL6**	**BL6C**
			7"	**BL7**	**BL7C**
			8"	**BL8**	**BL8C**
(A)	35/2 T/L 1"	21mm	3¾"	**GO3**	**GO3C**
			5"	**GO5**	**GO5C**
			6"	**GO6**	**GO6C**
			7"	**GO7**	**GO7C**
			8"	**GO8**	**GO8C**
			10"	**GO10**	**GO10C**
			12"	**GO12**	**GO12C**
			14"	**GO14**	**GO14C**
(A)	35/2 T/L 1.12"	21mm	3¾"	**BF3**	**BF3C**
			5"	**BF5**	**BF5C**
			6"	**BF6**	**BF6C**
			7"	**BF7**	**BF7C**
			8"	**BF8**	**BF8C**
(A)	35/2 T/L 30mm	22mm	3¾"	**BD3**	**BD3C**
			5"	**BD5**	**BD5C**
			6"	**BD6**	**BD6C**
			7"	**BD7**	**BD7C**
			8"	**BD8**	**BD8C**
(A)	35/2 T/L 26mm	25mm	3¾"	**GL3**	**GL3C**
			5"	**GL5**	**GL5C**
			6"	**GL6**	**GL6C**
			7"	**GL7**	**GL7C**
			8"	**GL8**	**GL8C**
			9"	**GL9**	**GL9C**
			10"	**GL10**	**GL10C**
			12"	**GL12**	**GL12C**
			14"	**GL14**	**GL14C**
(C)	40/2	½"	5"	**BO5**	
			6"	**BO6**	
			7"	**BO7**	
			8"	**BO8**	
(A)	40/2	21mm	3¾"	**BZ3**	**BZ3C**
			5"	**BZ5**	**BZ5C**
			6"	**BZ6**	**BZ6C**
			7"	**BZ7**	**BZ7C**
			8"	**BZ8**	**BZ8C**

B

Removable Tip Nozzle Bodies

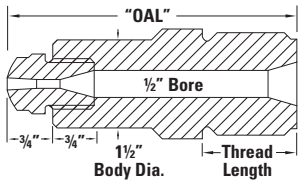
BATTENFELD

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Battenfeld (cont.)					
(A)	40/2	25mm	5″	**BA5**	**BA5C**
			6″	**BA6**	**BA6C**
			7″	**BA7**	**BA7C**
			8″	**BA8**	**BA8C**
			10″	**BA10**	**BA10C**
(A)	40/2	30mm, T/L 24mm	3¾″	**BT3**	**BT3C**
			5″	**BT5**	**BT5C**
			6″	**BT6**	**BT6C**
			7″	**BT7**	**BT7C**
			8″	**BT8**	**BT8C**
(A)	40/2	30mm, T/L 29mm	3¾″	**BSI3**	**BSI3C**
			5″	**BSI5**	**BSI5C**
			6″	**BSI6**	**BSI6C**
			7″	**BSI7**	**BSI7C**
			8″	**BSI8**	**BSI8C**
(B)	44/3	23mm	5″	**BSH5**	**BSH5C**
			6″	**BSH6**	**BSH6C**
			7″	**BSH7**	**BSH7C**
			8″	**BSH8**	**BSH8C**
(A)	45/2	34mm	5″	**BW5**	**BW5C**
			6″	**BW6**	**BW6C**
			7″	**BW7**	**BW7C**
			8″	**BW8**	**BW8C**
(A)	45/2	35mm	5″	**BM5**	**BM5C**
			6″	**BM6**	**BM6C**
			7″	**BM7**	**BM7C**
			8″	**BM8**	**BM8C**
(B)	48/3TR	30mm	5″	**BSG5**	**BSG5C**
			6″	**BSG6**	**BSG6C**
			7″	**BSG7**	**BSG7C**
			8″	**BSG8**	**BSG8C**
(B)	50/2	½″	3¾″	**BSC3**	
			5″	**BSC5**	
			6″	**BSC6**	
			7″	**BSC7**	
			8″	**BSC8**	
(B)	50/2	26mm	3¾″	**BSB3**	**BSB3C**
			5″	**BSB5**	**BSB5C**
			6″	**BSB6**	**BSB6C**
			7″	**BSB7**	**BSB7C**
			8″	**BSB8**	**BSB8C**



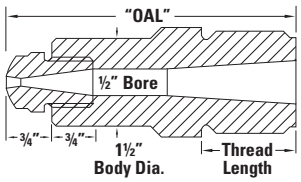
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2″ flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



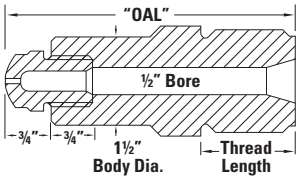
Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

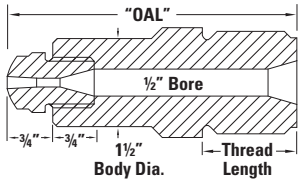
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

BATTENFELD CINCINNATI



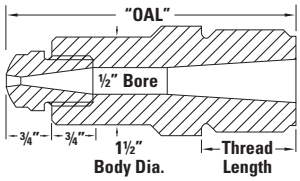
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2" flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

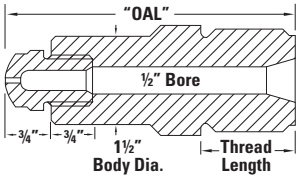
Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Battenfeld (cont.)					
(C)	65/3	2″	6″	BK6	BK6C
			7″	BK7	BK7C
			8″	BK8	BK8C
			9″	BK9	BK9C
			10″	BK10	BK10C
Cincinnati Milacron					
(A)	1¼″–12	¾″	3¾″	CC3	CC3C
			5″	CC5	CC5C
			6″	CC6	CC6C
			7″	CC7	CC7C
			8″	CC8	CC8C
(C)	1½″–12	½″	3¾″	CN3	
			5″	CN5	
			6″	CN6	
			7″	CN7	
			8″	CN8	
			9″	CN9	
			10″	CN10	
			12″	CN12	
			14″	CN14	
			16″	CN16	
			18″	CN18	
			20″	CN20	
(B)	1½″–12	⅝″	3¾″	CA3	CA3C
			5″	CA5	CA5C
			6″	CA6	CA6C
			7″	CA7	CA7C
			8″	CA8	CA8C
			9″	CA9	CA9C
			10″	CA10	CA10C
			12″	CA12	CA12C
(C)	42/2mm	18mm	3¾″	CB3	CB3C
			5″	CB5	CB5C
			6″	CB6	CB6C
			7″	CB7	CB7C
			8″	CB8	CB8C

B

Removable Tip Nozzle Bodies

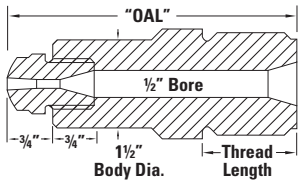
CINCINNATI ENGEL

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Cincinnati Milacron (cont.)					
(B)	1¾″–8	¾″	3¾″	NM3	NM3C
			5″	NM5	NM5C
			6″	NM6	NM6C
			7″	NM7	NM7C
			8″	NM8	NM8C
			9″	NM9	NM9C
			10″	NM10	NM10C
			12″	NM12	NM12C
			14″	NM14	NM14C
			16″	NM16	NM16C
			18″	NM18	NM18C
			20″	NM20	NM20C
(B)	45/2	¾″	5″	CI5	CI5C
			6″	CI6	CI6C
			7″	CI7	CI7C
			8″	CI8	CI8C
(C)	2″–8	1″	6″	CS6	CS6C
			7″	CS7	CS7C
			8″	CS8	CS8C
			9″	CS9	CS9C
			10″	CS10	CS10C
			12″	CS12	CS12C
(B)	36/4	16mm	3¾″	CT3	CT3C
			5″	CT5	CT5C
			6″	CT6	CT6C
			7″	CT7	CT7C
			8″	CT8	CT8C
Engel					
(A)	⅞″–14	11mm	3¾″	ENC3	
			5″	ENC5	
			6″	ENC6	
90	25/3	20mm	3¾″	EXD3	EXD3C
			5″	EXD5	EXD5C
			6″	EXD6	EXD6C
			7″	EXD7	EXD7C
			8″	EXD8	EXD8C
(A)	28/1.5	12mm	3¾″	ET3	
			5″	ET5	
			6″	ET6	
			7″	ET7	
			8″	ET8	



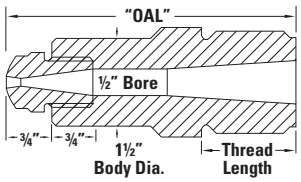
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2″ flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



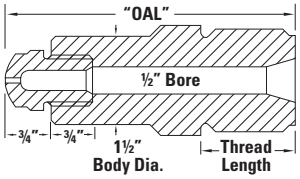
Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

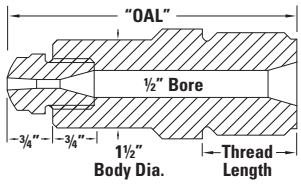
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

ENGEL



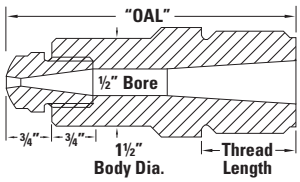
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2" flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

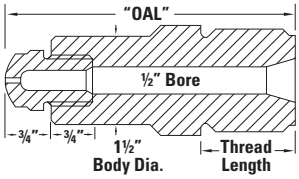
Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Engel (cont.)					
(A)	30/2	10mm (uses ½")	3¾"	ENN3	
			5"	ENN5	
			6"	ENN6	
			7"	ENN7	
			8"	ENN8	
(A)	1¼"–9 BSF	⅞"	3¾"	EV3	EV3C
			5"	EV5	EV5C
			6"	EV6	EV6C
			7"	EV7	EV7C
			8"	EV8	EV8C
(A)	1¼"-10	½"	3¾"	ENK3	
			5"	ENK5	
			6"	ENK6	
			7"	ENK7	
			8"	ENK8	
			9"	ENK9	
(A)	1¼"–10	¾"	3¾"	END3	END3C
			5"	END5	END5C
			6"	END6	END6C
			7"	END7	END7C
			8"	END8	END8C
			9"	END9	END9C
(A)	1¼"–10	21.2mm	3¾"	ENJ3	ENJ3C
			5"	ENJ5	ENJ5C
			6"	ENJ6	ENJ6C
			7"	ENJ7	ENJ7C
			8"	ENJ8	ENJ8C
			9"	ENJ9	ENJ9C
(B)	1¼" BSF	26.5	3¾"	EE3	EE3C
			5"	EE5	EE5C
			6"	EE6	EE6C
			7"	EE7	EE7C
			8"	EE8	EE8C
(A)	32/2.5	20mm	3¾"	ES3	ES3C
			5"	ES5	ES5C
			6"	ES6	ES6C
			7"	ES7	ES7C
			8"	ES8	ES8C
(A)	32/1.5	20mm	3¾"	EX3	EX3C
			5"	EX5	EX5C
			6"	EX6	EX6C
			7"	EX7	EX7C
			8"	EX8	EX8C

B

Removable Tip Nozzle Bodies

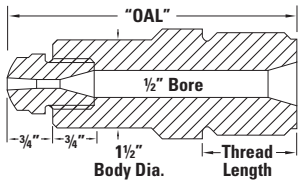
ENGEL

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Engel (cont.)					
(A)	35/2	16mm	3¾″	**EA3**	**EA3C**
			5″	**EA5**	**EA5C**
			6″	**EA6**	**EA6C**
			7″	**EA7**	**EA7C**
			8″	**EA8**	**EA8C**
(A)	35/2	22mm	3¾″	**ENG3**	**ENG3C**
			5″	**ENG5**	**ENG5C**
			6″	**ENG6**	**ENG6C**
			7″	**ENG7**	**ENG7C**
			8″	**ENG8**	**ENG8C**
(A)	36/1.5	22mm	3¾″	**EM3**	**EM3C**
			5″	**EM5**	**EM5C**
			6″	**EM6**	**EM6C**
			7″	**EM7**	**EM7C**
			8″	**EM8**	**EM8C**
(A)	40/2	24mm	3¾″	**EI3**	**EI3C**
			5″	**EI5**	**EI5C**
			6″	**EI6**	**EI6C**
			7″	**EI7**	**EI7C**
			8″	**EI8**	**EI8C**
(A)	40/2	26mm	3¾″	**EH3**	**EH3C**
			5″	**EH5**	**EH5C**
			6″	**EH6**	**EH6C**
			7″	**EH7**	**EH7C**
			8″	**EH8**	**EH8C**
(A)	40/2	25mm	3¾″	**EJ3**	**EJ3C**
			5″	**EJ5**	**EJ5C**
			6″	**EJ6**	**EJ6C**
			7″	**EJ7**	**EJ7C**
			8″	**EJ8**	**EJ8C**
(A)	40/2	27.5	3¾″	**ENB3**	**ENB3C**
			5″	**ENB5**	**ENB5C**
			6″	**ENB6**	**ENB6C**
			7″	**ENB7**	**ENB7C**
			8″	**ENB8**	**ENB8C**
(A)	40/3	1″	3¾″	**ENA3**	**ENA3C**
			5″	**ENA5**	**ENA5C**
			6″	**ENA6**	**ENA6C**
			7″	**ENA7**	**ENA7C**
			8″	**ENA8**	**ENA8C**
(B)	40/3	30mm	3¾″	**EU3**	**EU3C**
			5″	**EU5**	**EU5C**
			6″	**EU6**	**EU6C**
			7″	**EU7**	**EU7C**
			8″	**EU8**	**EU8C**



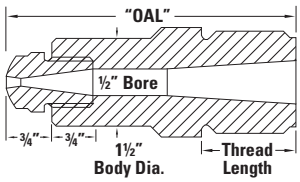
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2″ flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



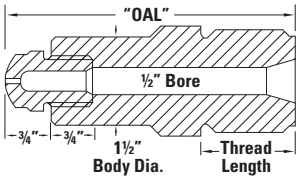
Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

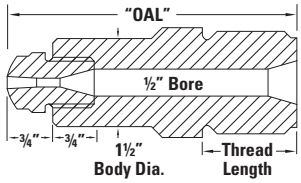
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

ENGEL



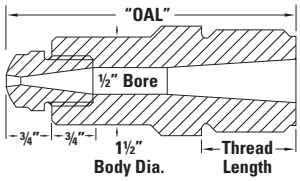
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2" flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

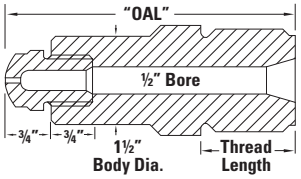
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Engel (cont.)					
(B)	45/2	16mm	3¾"	EL3	EL3C
			5"	EL5	EL5C
			6"	EL6	EL6C
			7"	EL7	EL7C
			8"	EL8	EL8C
(A)	45/2	25mm	3¾"	ENE3	ENE3C
			5"	ENE5	ENE5C
			6"	ENE6	ENE6C
			7"	ENE7	ENE7C
			8"	ENE8	ENE8C
(A)	45/2	27.5	3¾"	EO3	EO3C
			5"	EO5	EO5C
			6"	EO6	EO6C
			7"	EO7	EO7C
			8"	EO8	EO8C
(A)	45/3	½"	3¾"	ENH3	
			5"	ENH5	
			6"	ENH6	
			7"	ENH7	
			8"	ENH8	
(B)	45/3	¾"	3¾"	ED3	ED3C
			5"	ED5	ED5C
			6"	ED6	ED6C
			7"	ED7	ED7C
			8"	ED8	ED8C
(A)	45/3	20mm	3¾"	EC3	EC3C
			5"	EC5	EC5C
			6"	EC6	EC6C
			7"	EC7	EC7C
			8"	EC8	EC8C
(B)	45/3	32mm	3¾"	EN3	EN3C
			5"	EN5	EN5C
			6"	EN6	EN6C
			7"	EN7	EN7C
			8"	EN8	EN8C
(B)	45/3	34mm	3¾"	ENF3	ENF3C
			5"	ENF5	ENF5C
			6"	ENF6	ENF6C
			7"	ENF7	ENF7C
			8"	ENF8	ENF8C

Removable Tip Nozzle Bodies

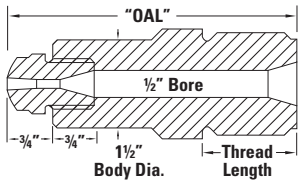
ENGEL

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Engel (cont.)					
(B)	1¾"–8	¾"	3¾"	NM3	NM3C
			5"	NM5	NM5C
			6"	NM6	NM6C
			7"	NM7	NM7C
			8"	NM8	NM8C
			9"	NM9	NM9C
			10"	NM10	NM10C
			12"	NM12	NM12C
			14"	NM14	NM14C
			16"	NM16	NM16C
(E)	52/3	16mm	5"	ENL5	ENL5C
			6"	ENL6	ENL6C
			7"	ENL7	ENL7C
			8"	ENL8	ENL8C
			9"	ENL9	ENL9C
(A)	55/3	30mm	5"	EK5	EK5C
			6"	EK6	EK6C
			7"	EK7	EK7C
			8"	EK8	EK8C
			9"	EK9	EK9C
(A)	55/3	32mm	5"	EB5	EB5C
			6"	EB6	EB6C
			7"	EB7	EB7C
			8"	EB8	EB8C
			9"	EB9	EB9C
(B)	55/3	35mm	5"	EW5	EW5C
			6"	EW6	EW6C
			7"	EW7	EW7C
			8"	EW8	EW8C
			9"	EW9	EW9C
(B)	60/2	35mm	5"	EG5	EG5C
			6"	EG6	EG6C
			7"	EG7	EG7C
			8"	EG8	EG8C
			9"	EG9	EG9C
(B)	64/2	42mm	5"	EY5	EY5C
			6"	EY6	EY6C
			7"	EY7	EY7C
			8"	EY8	EY8C
			9"	EY9	EY9C
			10"	EY10	EY10C



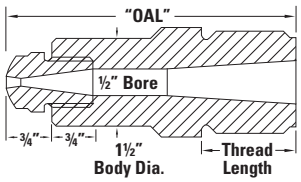
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; ½" flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



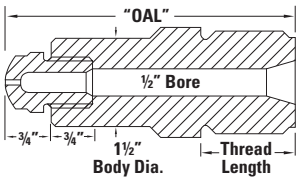
Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

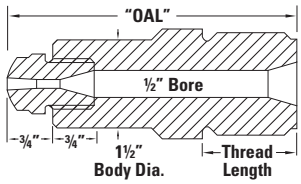
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

JSW



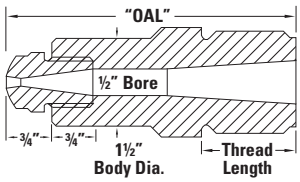
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2" flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

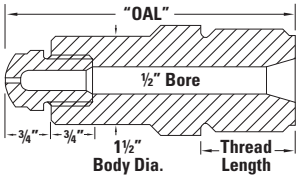
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
JSW					
(B)	44/3	20mm	3¾"	JE3	JE3C
			5"	JE5	JE5C
			6"	JE6	JE6C
			7"	JE7	JE7C
			8"	JE8	JE8C
			10"	JE10	JE10C
(B)	45/3	26mm	3¾"	JB3	JB3C
			5"	JB5	JB5C
			6"	JB6	JB6C
			7"	JB7	JB7C
			8"	JB8	JB8C
			10"	JB10	JB10C
(C)	50/3	12.5mm	3¾"	JA3	
			5"	JA5	
			6"	JA6	
			7"	JA7	
			8"	JA8	
			10"	JA10	
(A)	50/3 T/L 30mm	15mm	3¾"	JC3	JC3C
			5"	JC5	JC5C
			6"	JC6	JC6C
			7"	JC7	JC7C
			8"	JC8	JC8C
			10"	JC10	JC10C
(D)	50/3 T/L 58mm	15mm	3¾"	JW3	JW3C
			5"	JW5	JW5C
			6"	JW6	JW6C
			7"	JW7	JW7C
			8"	JW8	JW8C
			10"	JW10	JW10C
(B)	55/3	8mm	5"	JF5	
			6"	JF6	
			7"	JF7	
			8"	JF8	
			10"	JF10	
(B)	55/3	12.5mm	5"	JG5	
			6"	JG6	
			7"	JG7	
			8"	JG8	
			10"	JG10	
(B)	55/3	20mm	5"	JD5	JD5C
			6"	JD6	JD6C
			7"	JD7	JD7C
			8"	JD8	JD8C
			10"	JD10	JD10C

Removable Tip Nozzle Bodies

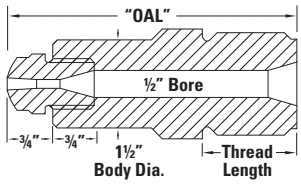
NISSEI

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Nissei					
(A)	20/1.5	8mm	3¾″	NIS3	
			5″	NIS5	
			6″	NIS6	
			7″	NIS7	
			8″	NIS8	
(A)	35/2 T/L 24mm	20mm	3¾″	NS3	NS3C
			5″	NS5	NS5C
			6″	NS6	NS6C
			7″	NS7	NS7C
			8″	NS8	NS8C
(A)	35/2 T/L 30mm	20mm	3¾″	NIA3	NIA3C
			5″	NIA5	NIA5C
			6″	NIA6	NIA6C
			7″	NIA7	NIA7C
			8″	NIA8	NIA8C
(C)	35/2 T/L 49mm	20mm	3¾″	NIC3	NIC3C
			5″	NIC5	NIC5C
			6″	NIC6	NIC6C
			7″	NIC7	NIC7C
			8″	NIC8	NIC8C
(B)	40/2	20mm	3¾″	NF3	NF3C
			5″	NF5	NF5C
			6″	NF6	NF6C
			7″	NF7	NF7C
			8″	NF8	NF8C
(B)	40/2	30mm	3¾″	IB3	IB3C
			5″	IB5	IB5C
			6″	IB6	IB6C
			7″	IB7	IB7C
			8″	IB8	IB8C
(B)	50/2 T/L 41mm	25mm	5″	NIB5	NIB5C
			6″	NIB6	NIB6C
			7″	NIB7	NIB7C
			8″	NIB8	NIB8C
			10″	NIB10	NIB10C
(B)	50/2 T/L 42mm	26mm	5″	NI5	NI5C
			6″	NI6	NI6C
			7″	NI7	NI7C
			8″	NI8	NI8C
			10″	NI10	NI10C
(C)	60/2	30mm	5″	NC5	NC5C
			6″	NC6	NC6C
			7″	NC7	NC7C
			8″	NC8	NC8C
			10″	NC10	NC10C



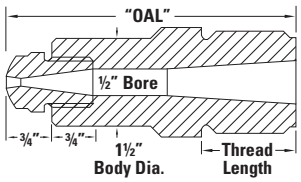
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2″ flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



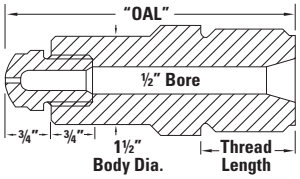
Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

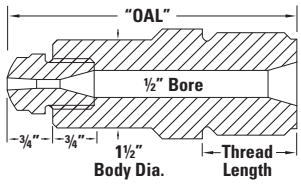
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

TOSHIBA



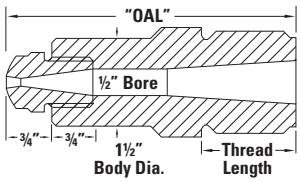
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2" flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

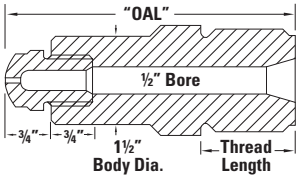
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Nissei (cont.)					
(D)	80/2	40mm	5″	IS5	IS5C
			6″	IS6	IS6C
			7″	IS7	IS7C
			8″	IS8	IS8C
			10″	IS10	IS10C
Toshiba					
(A)	36/1.5 (22mm T/L)	13mm	3¾″	TZ3	
			5″	TZ5	
			6″	TZ6	
			7″	TZ7	
			8″	TZ8	
(A)	36/1.5 (22mm T/L)	10mm	3¾″	TOG3	
			5″	TOG5	
			6″	TOG6	
			7″	TOG7	
			8″	TOG8	
(A)	36/1.5	21mm	3¾″	TOE3	TOE3C
			5″	TOE5	TOE5C
			6″	TOE6	TOE6C
			7″	TOE7	TOE7C
			8″	TOE8	TOE8C
(A)	38/1.5	15mm	3¾″	TH3	TH3C
			5″	TH5	TH5C
			6″	TH6	TH6C
			7″	TH7	TH7C
			8″	TH8	TH8C
			10″	TH10	TH10C
(A)	1½″–12	15mm	3¾″	TO3	TO3C
			5″	TO5	TO5C
			6″	TO6	TO6C
			7″	TO7	TO7C
			8″	TO8	TO8C
			10″	TO10	TO10C
			12″	TO12	TO12C
			14″	TO14	TO14C

Removable Tip Nozzle Bodies

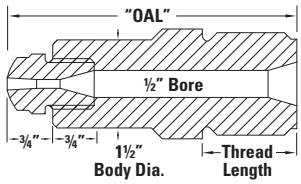
TOSHIBA

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Toshiba (cont.)					
(B)	1¾″–8	¾″	3¾″	NM3	NM3C
			5″	NM5	NM5C
			6″	NM6	NM6C
			7″	NM7	NM7C
			8″	NM8	NM8C
			9″	NM9	NM9C
			10″	NM10	NM10C
			12″	NM12	NM12C
			14″	NM14	NM14C
(B)	48/1.5	¾″	3¾″	TD3	TD3C
			5″	TD5	TD5C
			6″	TD6	TD6C
			7″	TD7	TD7C
			8″	TD8	TD8C
(A)	55/3	32mm	5″	TOH5	TOH5C
			6″	TOH6	TOH6C
			7″	TOH7	TOH7C
			8″	TOH8	TOH8C
			12″	TOH12	TOH12C
(B)	60/4	25mm	5″	TOF5	TOF5C
			6″	TOF6	TOF6C
			7″	TOF7	TOF7C
			8″	TOF8	TOF8C
			12″	TOF12	TOF12C
(B)	60/4	28mm	5″	TE5	TE5C
			6″	TE6	TE6C
			7″	TE7	TE7C
			8″	TE8	TE8C
			12″	TE12	TE12C
(B)	60/4 T/L 41mm	32mm	5″	TG5	TG5C
			6″	TG6	TG6C
			7″	TG7	TG7C
			8″	TG8	TG8C
			9″	TG9	TG9C
			10″	TG10	TG10C
			12″	TG12	TG12C



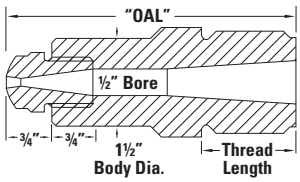
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2″ flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



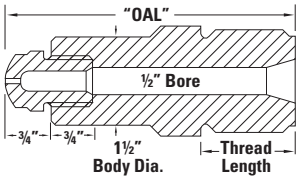
Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

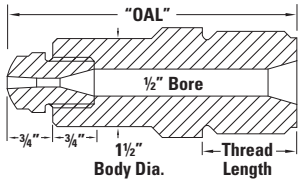
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

TOSHIBA TOYO



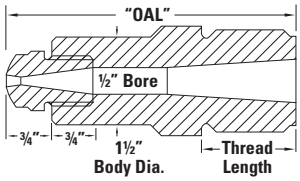
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2" flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

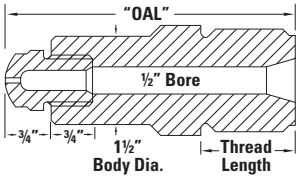
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Toshiba (cont.)					
(B)	60/4	36mm	5″	TOA5	TOA5C
			6″	TOA6	TOA6C
			7″	TOA7	TOA7C
			8″	TOA8	TOA8C
			9″	TOA9	TOA9C
			10″	TOA10	TOA10C
			12″	TOA12	TOA12C
(C)	60/4 T/L 50mm	32mm	7″	TS7	TS7C
			8″	TS8	TS8C
			9″	TS9	TS9C
			10″	TS10	TS10C
			12″	TS12	TS12C
(E)	3¼″–8	55mm	7″	TJ7	TJ7C
			8″	TJ8	TJ8C
			9″	TJ9	TJ9C
			10″	TJ10	TJ10C
			12″	TJ12	TJ12C
(C)	80/4	25mm	7″	TOC7	TOC7C
			8″	TOC8	TOC8C
			9″	TOC9	TOC9C
			10″	TOC10	TOC10C
			12″	TOC12	TOC12C
(E)	80/4	50mm	7″	TOD7	TOD7C
			8″	TOD8	TOD8C
			9″	TOD9	TOD9C
			10″	TOD10	TOD10C
			12″	TOD12	TOD12C
(C)	80/4	52mm	7″	TOB7	TOB7C
			8″	TOB8	TOB8C
			9″	TOB9	TOB9C
			10″	TOB10	TOB10C
			12″	TOB12	TOB12C
Toyo					
(A)	36/2	10mm (uses ½″)	3¾″	TYA3	
			5″	TYA5	
			6″	TYA6	
			7″	TYA7	
			8″	TYA8	
(A)	36/2	23mm	3¾″	TK3	TK3C
			5″	TK5	TK5C
			6″	TK6	TK6C
			7″	TK7	TK7C
			8″	TK8	TK8C

Removable Tip Nozzle Bodies

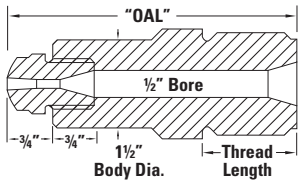
TOYO VAN DORN

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Toyo (cont.)					
(B)	42/3	24mm	5″	TL5	TL5C
			6″	TL6	TL6C
			7″	TL7	TL7C
			8″	TL8	TL8C
			10″	TL10	TL10C
(C)	50/3	26mm	5″	TW5	TW5C
			6″	TW6	TW6C
			7″	TW7	TW7C
			8″	TW8	TW8C
			10″	TW10	TW10C
(B)	65/4	32mm	5″	TM5	TM5C
			6″	TM6	TM6C
			7″	TM7	TM7C
			8″	TM8	TM8C
			10″	TM10	TM10C
(B)	65/4	40mm	5″	TV5	TV5C
			6″	TV6	TV6C
			7″	TV7	TV7C
			8″	TV8	TV8C
			10″	TV10	TV10C
Van Dorn					
(B)	1¼″–12	¾″	3¾″	BR3	BR3C
			5″	BR5	BR5C
			6″	BR6	BR6C
			7″	BR7	BR7C
			8″	BR8	BR8C
			9″	BR9	BR9C
			10″	BR10	BR10C
			12″	BR12	BR12C
			14″	BR14	BR14C
			16″	BR16	BR16C
(B)	1¾″–8	1¼″	3¾″	VR3	VR3C
			5″	VR5	VR5C
			6″	VR6	VR6C
			7″	VR7	VR7C
			8″	VR8	VR8C
			9″	VR9	VR9C
			10″	VR10	VR10C
			12″	VR12	VR12C
			14″	VR14	VR14C
			16″	VR16	VR16C



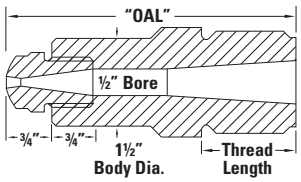
General Purpose Style A

General purpose internal design provides minimum flowresistance and back-pressure build-up; 1/2″ flow path.



Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.



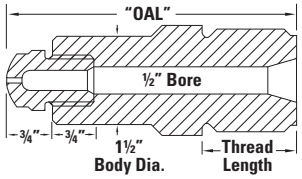
Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Options and Spares:

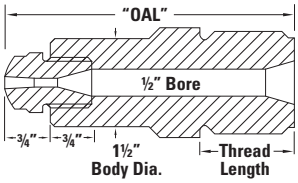
1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

VAN DORN



General Purpose Style A

General purpose internal design provides minimum flow resistance and back-pressure build-up; 1/2" flow path.



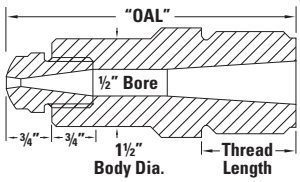
Nylon Reverse Taper Style B

For use with polyamides, acrylics and similar expansive materials. Uses standard body with nylon reverse taper tip.

Full Taper ABS Style C

For use with ABS, PVC and other viscous hard-flow materials. Reduces frictional heat and hang-up. Large tip orifice recommended for minimal flow resistance.

Heater Band Code	Thread	Rear Opening	Overall Length	G.P. or Nylon (Style A & B) Part Number	Full Taper (Style C) Part Number
Van Dorn (cont.)					
(B)	2"–8	1½"	5"	VD5	VD5C
			6"	VD6	VD6C
			7"	VD7	VD7C
			8"	VD8	VD8C
			9"	VD9	VD9C
			10"	VD10	VD10C
			12"	VD12	VD12C
(B)	2¼"–8	41mm	5"	VN5	VN5C
			6"	VN6	VN6C
			7"	VN7	VN7C
			8"	VN8	VN8C
			9"	VN9	VN9C
			10"	VN10	VN10C
			12"	VN12	VN12C
(B)	2½"–8	1"	5"	VA5	VA5C
			6"	VA6	VA6C
			7"	VA7	VA7C
			8"	VA8	VA8C
			9"	VA9	VA9C
			10"	VA10	VA10C
			12"	VA12	VA12C



Options and Spares:

1. Add thermocouple hole on hex flat.
2. For thermocouples, see pages 587–598.
3. Use heater band code to select correct band and internal cartridge heater size from tables on page 173.

NOZZLE WRENCHES

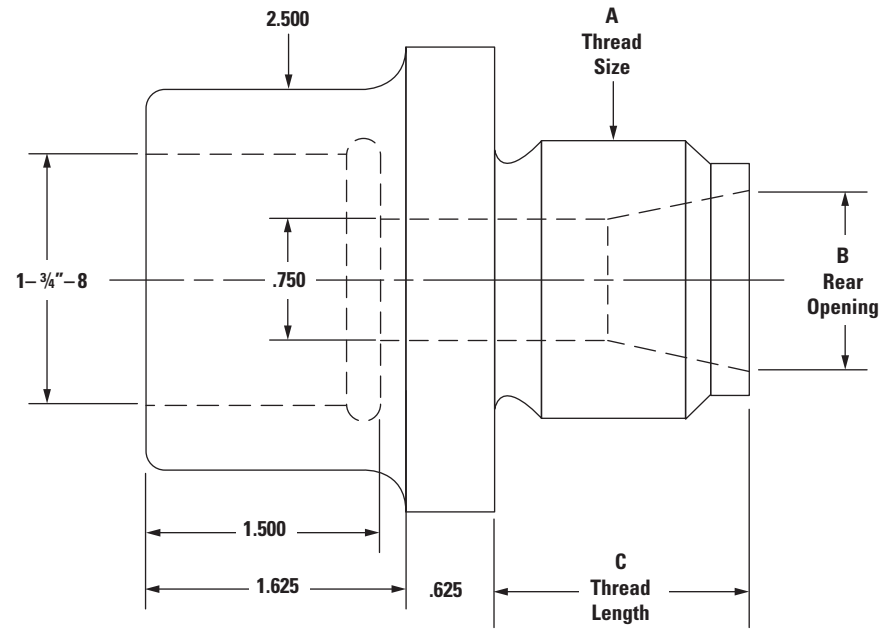
Nozzle Wrenches

Six point box to help eliminate possible damage to nut. Extra clearance in head diameter to facilitate use with flange connections. Heavy duty for use with hammer for extra tightness or where impact is needed to loosen frozen nozzles.

Opening	Head O.D.	OAL	Weight (lbs.)	Use with	Part Number
7/8"	1 3/8"	7 1/2"	0.6	Regular tips	SFBW1*
1 1/16"	1 25/32"	9 7/8"	1.9	Extended tips	SFBW2
1 1/4"	2"	10 1/4"	2.1		SFBW3
1 7/16"	2 17/64"	10 9/16"	2.6		SFBW4
1 5/8"	2 31/64"	11"	2.9	Bodies	SFBW5
1 13/16"	2 21/32"	11 5/16"	3.5		SFBW6
2"	3 1/32"	11 11/16"	4.0		SFBW7
2 3/16"	3 9/32"	12"	5.2		SFBW8
2 3/8"	3 13/32"	12 3/8"	6.0		SFBW9
2 9/16"	3 3/4"	12 11/16"	6.6	Adaptors	SFBW10
2 3/4"	4 11/64"	13 1/16"	7.5		SFBW11
2 15/16"	4 23/64"	13 7/16"	7.9		SFBW12
3 1/8"	4 31/64"	13 13/16"	9.4		SFBW13
3 1/2"	4 31/32"	14 1/8"	10.5		SFBW14
3 7/8"	5 35/64"	14 1/2"	13.3		SFBW15

Custom Adapters & Nozzles

ONLINE FORM



Adapter

Indicate specifications below and send form to DME via fax (888-808-4363) or DME@dme.net.

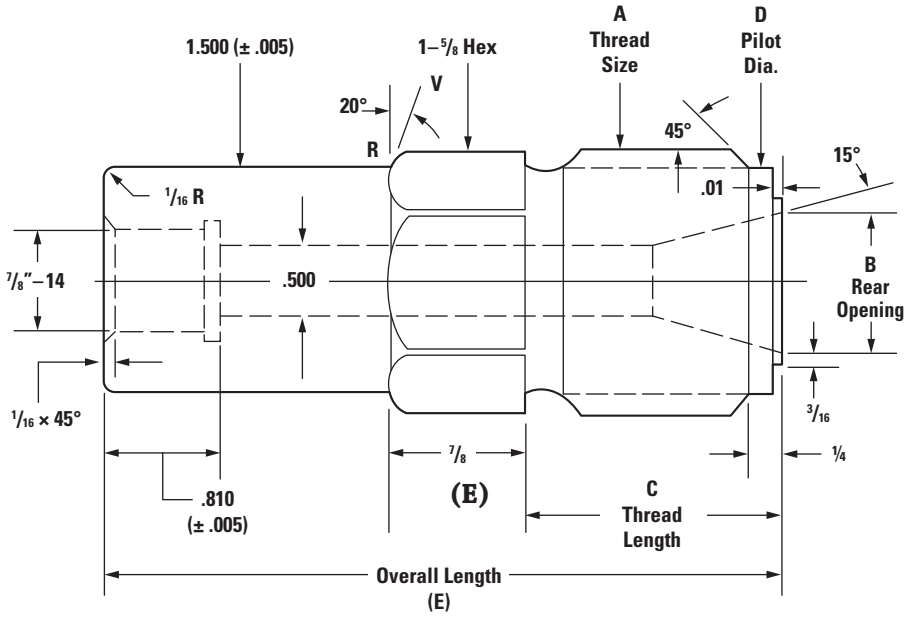
A = _____

B = _____

C = _____

ELECTRONIC QUOTE REQUEST FORM

or visit
www.dme.net/rfq



Nozzle:

Indicate specifications below and send form to DME via fax (888-808-4363) or DME@dme.net.

A = _____

B = _____

C = _____

D = _____

E = _____

Fill Out Information Completely – Thanks!

Company: _____ Contact Name: _____

Account Number: _____ Phone: _____

Address: _____ Fax : _____

City: _____ E-mail: _____

State/Zip: _____

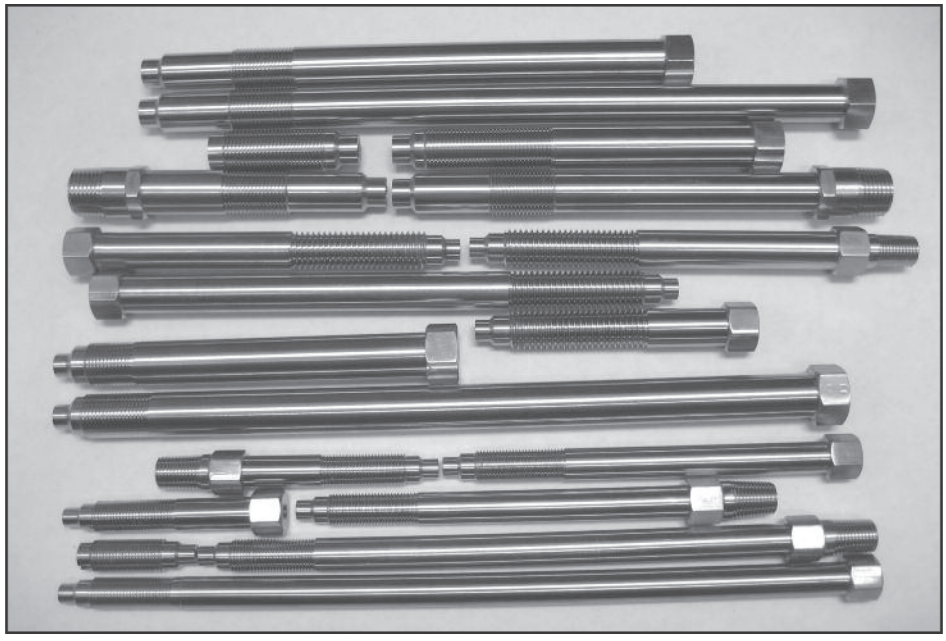
If You Don't See What You Need - Please Call For Assistance!

GLOBAL PLASTIC MOULDING SUPPLIES

DME Industrial Supplies Line of GPMS Extruder Rupture Disks (Burst Plugs) are primarily used on Plastics Extrusion Machinery to provide emergency pressure relief. Extruder Rupture Disks from DME Industrial Supplies are designed to instantaneously rupture at a pre-determined pressure. Extruder Rupture Disks are leak tight and intrinsically safe devices that require no maintenance.

The GPMS Line of Extruder Rupture Disk assemblies are manufactured
from 304 SS and incorporate either an Inconel or Stainless Steel Disk which minimize the affects of varying processing temperatures. The ERD Series of Extruder Rupture Disks from DME Industrial Supplies are offered in a wide variety of lengths and configurations. Standard stock assemblies are available in burst pressures ranging from 1,500 up to 15,000 psi, and lengths from 1.82" up to 12".

Several different mounting threads are offered on the GPMS line of ERD Series Extruder Rupture Disks that are commonly found on plastics extrusion machinery.



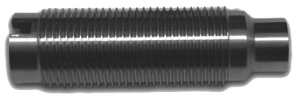
GPMS Rupture Disks

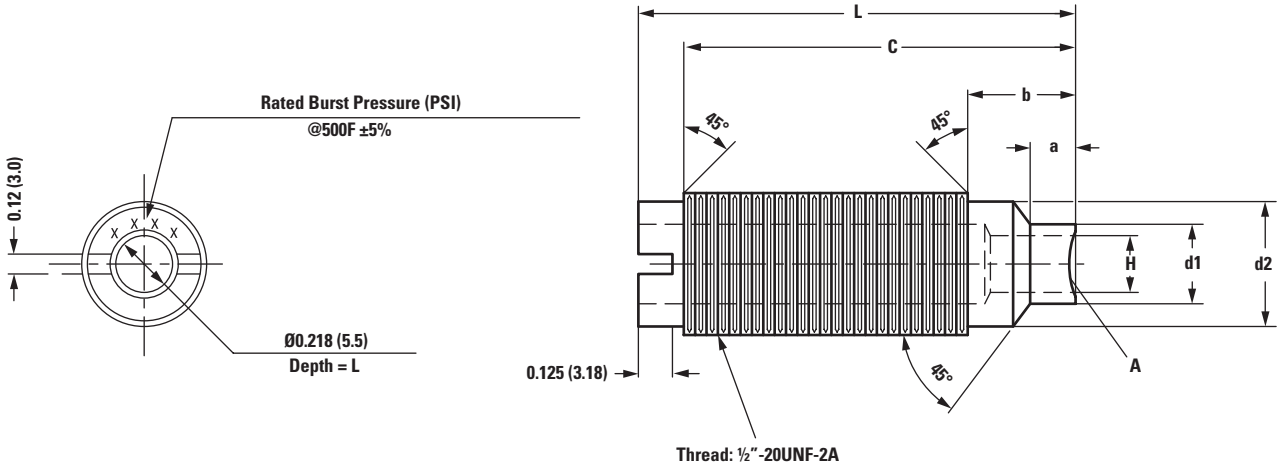
½" – 20 Mounting Thread

GLOBAL PLASTIC MOULDING SUPPLIES

GPMS RUPTURE DISKS

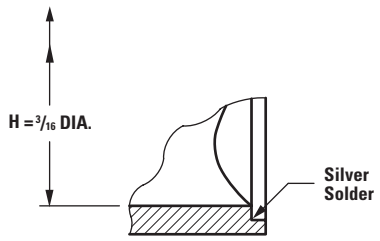
1.8" Length





a	b	C	L
0.250 (6.35) 0.234 (5.94)	0.50 (12.7)	1.63 (41.40)	1.82 (46.2)

H	d1	d2
3/16" (4.76)	ø0.310 (7.87) ø0.305 (7.75)	ø0.420 (10.67) ø0.410 (10.41)



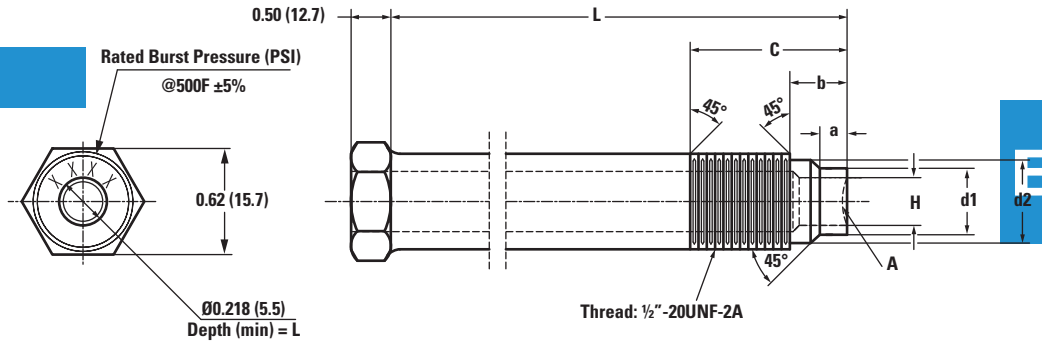
DETAIL A

Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD2-1.5M	½" 20 UNF	1.82"	Slotted	None	1,500
ERD2-2.5M	½" 20 UNF	1.82"	Slotted	None	2,500
ERD2-3.5M	½" 20 UNF	1.82"	Slotted	None	3,500
ERD2-4.5M	½" 20 UNF	1.82"	Slotted	None	4,500
ERD2-5.5M	½" 20 UNF	1.82"	Slotted	None	5,500
ERD2-6.5M	½" 20 UNF	1.82"	Slotted	None	6,500
ERD2-7.5M	½" 20 UNF	1.82"	Slotted	None	7,500
ERD2-8.5M	½" 20 UNF	1.82"	Slotted	None	8,500
ERD2-9.5M	½" 20 UNF	1.82"	Slotted	None	9,500
ERD2-10.5M	½" 20 UNF	1.82"	Slotted	None	10,500
ERD2-12.5M	½" 20 UNF	1.82"	Slotted	None	12,500
ERD2-15M	½" 20 UNF	1.82"	Slotted	None	15,000

GLOBAL PLASTIC MOULDING SUPPLIES

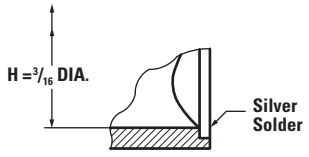
3" Length

GPMS RUPTURE DISKS



a	b	C	L
0.250 (6.35) 0.234 (5.94)	0.50 (12.7)	1.81 (45.97)	3.00 (76.2)

H	d1	d2
3/16" (4.76)	ø0.310 (7.87) ø0.305 (7.75)	ø0.420 (10.67) ø0.410 (10.41)



Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD3H1.5M	½" 20 UNF	3"	Hex	None	1,500
ERD3H2.5M	½" 20 UNF	3"	Hex	None	2,500
ERD3H3.5M	½" 20 UNF	3"	Hex	None	3,500
ERD3H4.5M	½" 20 UNF	3"	Hex	None	4,500
ERD3H5.5M	½" 20 UNF	3"	Hex	None	5,500
ERD3H6.5M	½" 20 UNF	3"	Hex	None	6,500
ERD3H7.5M	½" 20 UNF	3"	Hex	None	7,500
ERD3H8.5M	½" 20 UNF	3"	Hex	None	8,500
ERD3H9.5M	½" 20 UNF	3"	Hex	None	9,500
ERD3H10.5M	½" 20 UNF	3"	Hex	None	10,500
ERD3H12.5M	½" 20 UNF	3"	Hex	None	12,500
ERD3H15M	½" 20 UNF	3"	Hex	None	15,000
ERD3H1.5M14	½" 20 UNF	3"	Hex	¼" NPT	1,500
ERD3H2.5M14	½" 20 UNF	3"	Hex	¼" NPT	2,500
ERD3H3.5M14	½" 20 UNF	3"	Hex	¼" NPT	3,500
ERD3H4.5M14	½" 20 UNF	3"	Hex	¼" NPT	4,500
ERD3H5.5M14	½" 20 UNF	3"	Hex	¼" NPT	5,500
ERD3H6.5M14	½" 20 UNF	3"	Hex	¼" NPT	6,500
ERD3H7.5M14	½" 20 UNF	3"	Hex	¼" NPT	7,500
ERD3H8.5M14	½" 20 UNF	3"	Hex	¼" NPT	8,500
ERD3H9.5M14	½" 20 UNF	3"	Hex	¼" NPT	9,500
ERD3H10.5M14	½" 20 UNF	3"	Hex	¼" NPT	10,500
ERD3H12.5M14	½" 20 UNF	3"	Hex	¼" NPT	12,500
ERD3H15M14	½" 20 UNF	3"	Hex	¼" NPT	15,000

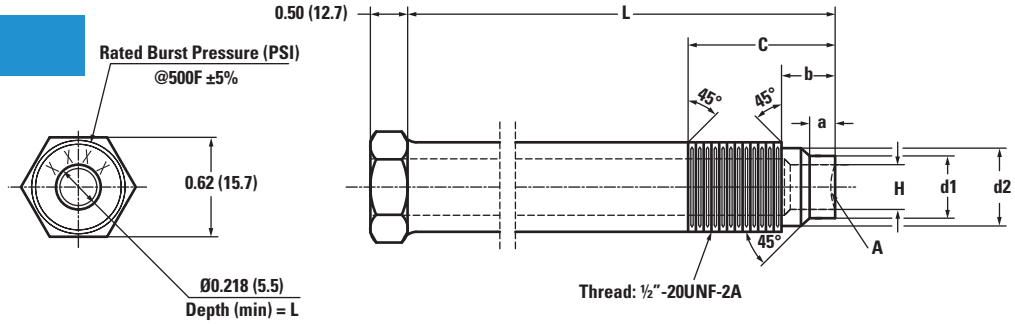
GPMS Rupture Disks

½" – 20 Mounting Thread

GLOBAL PLASTIC MOULDING SUPPLIES

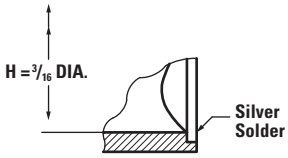
GPMS RUPTURE DISKS

6" Length



a	b	C	L
0.250 (6.35) 0.234 (5.94)	0.50 (12.7)	1.81 (45.97)	6.00 (152.4)

H	d1	d2
3/16" (4.76)	ø0.310 (7.87) ø0.305 (7.75)	ø0.420 (10.67) ø0.410 (10.41)

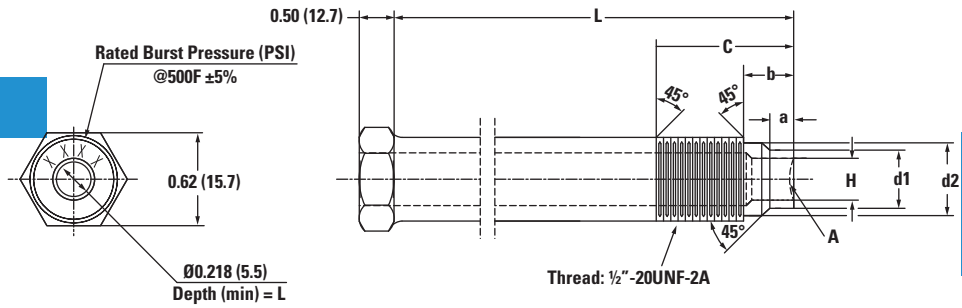


DETAIL A

Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD6H1.5M	½" 20 UNF	6"	Hex	None	1,500
ERD6H2.5M	½" 20 UNF	6"	Hex	None	2,500
ERD6H3.5M	½" 20 UNF	6"	Hex	None	3,500
ERD6H4.5M	½" 20 UNF	6"	Hex	None	4,500
ERD6H5.5M	½" 20 UNF	6"	Hex	None	5,500
ERD6H6.5M	½" 20 UNF	6"	Hex	None	6,500
ERD6H7.5M	½" 20 UNF	6"	Hex	None	7,500
ERD6H8.5M	½" 20 UNF	6"	Hex	None	8,500
ERD6H9.5M	½" 20 UNF	6"	Hex	None	9,500
ERD6H10.5M	½" 20 UNF	6"	Hex	None	10,500
ERD6H12.5M	½" 20 UNF	6"	Hex	None	12,500
ERD6H15M	½" 20 UNF	6"	Hex	None	15,000
ERD6H1.5M14	½" 20 UNF	6"	Hex	¼" NPT	1,500
ERD6H2.5M14	½" 20 UNF	6"	Hex	¼" NPT	2,500
ERD6H3.5M14	½" 20 UNF	6"	Hex	¼" NPT	3,500
ERD6H4.5M14	½" 20 UNF	6"	Hex	¼" NPT	4,500
ERD6H5.5M14	½" 20 UNF	6"	Hex	¼" NPT	5,500
ERD6H6.5M14	½" 20 UNF	6"	Hex	¼" NPT	6,500
ERD6H7.5M14	½" 20 UNF	6"	Hex	¼" NPT	7,500
ERD6H8.5M14	½" 20 UNF	6"	Hex	¼" NPT	8,500
ERD6H9.5M14	½" 20 UNF	6"	Hex	¼" NPT	9,500
ERD6H10.5M14	½" 20 UNF	6"	Hex	¼" NPT	10,500
ERD6H12.5M14	½" 20 UNF	6"	Hex	¼" NPT	12,500
ERD6H15M14	½" 20 UNF	6"	Hex	¼" NPT	15,000

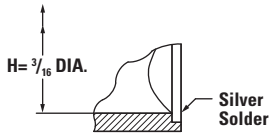
GLOBAL PLASTIC MOULDING SUPPLIES

9" Length



a	b	C	L
0.250 (6.35) 0.234 (5.94)	0.50 (12.7)	1.81 (45.97)	9.0 (228.6)

H	d1	d2
3/16" (4.76)	ø0.310 (7.87) ø0.305 (7.75)	ø0.420 (10.67) ø0.410 (10.41)



DETAIL A

GPMS RUPTURE DISKS

Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD9H1.5M	½" 20 UNF	9"	Hex	None	1,500
ERD9H2.5M	½" 20 UNF	9"	Hex	None	2,500
ERD9H3.5M	½" 20 UNF	9"	Hex	None	3,500
ERD9H4.5M	½" 20 UNF	9"	Hex	None	4,500
ERD9H5.5M	½" 20 UNF	9"	Hex	None	5,500
ERD9H6.5M	½" 20 UNF	9"	Hex	None	6,500
ERD9H7.5M	½" 20 UNF	9"	Hex	None	7,500
ERD9H8.5M	½" 20 UNF	9"	Hex	None	8,500
ERD9H9.5M	½" 20 UNF	9"	Hex	None	9,500
ERD9H10.5M	½" 20 UNF	9"	Hex	None	10,500
ERD9H12.5M	½" 20 UNF	9"	Hex	None	12,500
ERD9H15M	½" 20 UNF	9"	Hex	None	15,000
ERD9H1.5M14	½" 20 UNF	9"	Hex	¼" NPT	1,500
ERD9H2.5M14	½" 20 UNF	9"	Hex	¼" NPT	2,500
ERD9H3.5M14	½" 20 UNF	9"	Hex	¼" NPT	3,500
ERD9H4.5M14	½" 20 UNF	9"	Hex	¼" NPT	4,500
ERD9H5.5M14	½" 20 UNF	9"	Hex	¼" NPT	5,500
ERD9H6.5M14	½" 20 UNF	9"	Hex	¼" NPT	6,500
ERD9H7.5M14	½" 20 UNF	9"	Hex	¼" NPT	7,500
ERD9H8.5M14	½" 20 UNF	9"	Hex	¼" NPT	8,500
ERD9H9.5M14	½" 20 UNF	9"	Hex	¼" NPT	9,500
ERD9H10.5M14	½" 20 UNF	9"	Hex	¼" NPT	10,500
ERD9H12.5M14	½" 20 UNF	9"	Hex	¼" NPT	12,500
ERD9H15M14	½" 20 UNF	9"	Hex	¼" NPT	15,000

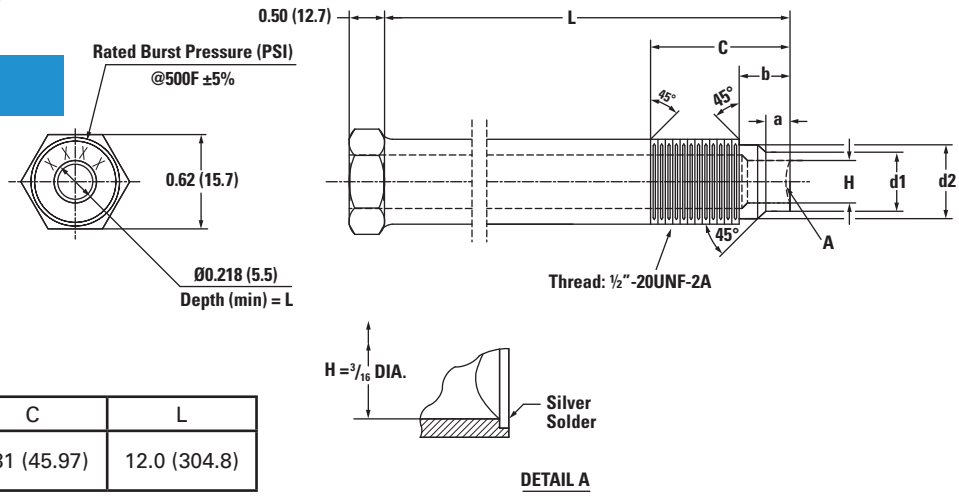
GPMS Rupture Disks

½" – 20 Mounting Thread

GLOBAL PLASTIC MOULDING SUPPLIES

12" Length

GPMS RUPTURE DISKS



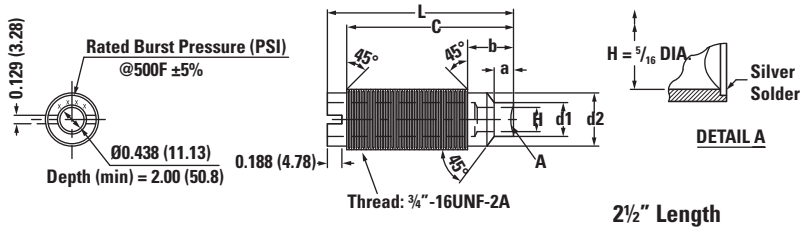
a	b	C	L
0.250 (6.35) 0.234 (5.94)	0.50 (12.7)	1.81 (45.97)	12.0 (304.8)

H	d1	d2
3/16" (4.76)	ø0.310 (7.87) ø0.305 (7.75)	ø0.420 (10.67) ø0.410 (10.41)

Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD12H1.5M	½" 20 UNF	12"	Hex	None	1,500
ERD12H2.5M	½" 20 UNF	12"	Hex	None	2,500
ERD12H3.5M	½" 20 UNF	12"	Hex	None	3,500
ERD12H4.5M	½" 20 UNF	12"	Hex	None	4,500
ERD12H5.5M	½" 20 UNF	12"	Hex	None	5,500
ERD12H6.5M	½" 20 UNF	12"	Hex	None	6,500
ERD12H7.5M	½" 20 UNF	12"	Hex	None	7,500
ERD12H8.5M	½" 20 UNF	12"	Hex	None	8,500
ERD12H9.5M	½" 20 UNF	12"	Hex	None	9,500
ERD12H10.5M	½" 20 UNF	12"	Hex	None	10,500
ERD12H12.5M	½" 20 UNF	12"	Hex	None	12,500
ERD12H15M	½" 20 UNF	12"	Hex	None	15,000
ERD12H1.5M14	½" 20 UNF	12"	Hex	¼" NPT	1,500
ERD12H2.5M14	½" 20 UNF	12"	Hex	¼" NPT	2,500
ERD12H3.5M14	½" 20 UNF	12"	Hex	¼" NPT	3,500
ERD12H4.5M14	½" 20 UNF	12"	Hex	¼" NPT	4,500
ERD12H5.5M14	½" 20 UNF	12"	Hex	¼" NPT	5,500
ERD12H6.5M14	½" 20 UNF	12"	Hex	¼" NPT	6,500
ERD12H7.5M14	½" 20 UNF	12"	Hex	¼" NPT	7,500
ERD12H8.5M14	½" 20 UNF	12"	Hex	¼" NPT	8,500
ERD12H9.5M14	½" 20 UNF	12"	Hex	¼" NPT	9,500
ERD12H10.5M14	½" 20 UNF	12"	Hex	¼" NPT	10,500
ERD12H12.5M14	½" 20 UNF	12"	Hex	¼" NPT	12,500
ERD12H15M14	½" 20 UNF	12"	Hex	¼" NPT	15,000

GLOBAL PLASTIC MOULDING SUPPLIES

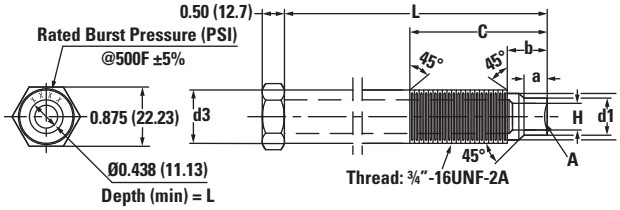
2½" & 4" Length



2½" Length

DETAIL A

GPMS RUPTURE DISKS



4" Length

2½" Length Specifications

a	b	C	L
0.312 (7.93) 0.300 (7.62)	0.545 (13.84)	2.25 (57.15)	2.50 (63.5)

H	d1	d2
5/16" (7.95)	ø0.500 (12.70) ø0.495 (12.57)	ø0.665 (16.89) ø0.655 (16.64)

4" Length Specifications

a	b	C	L
0.300 (7.62) 0.312 (7.93)	0.545 (13.84)	2.70 (68.58)	4.00 (101.6)

H	d1	d2	d3
5/16" (7.95)	ø0.500 (12.70) ø0.495 (12.57)	ø0.665 (16.89) ø0.655 (16.64)	ø0.66 (16.76)

B

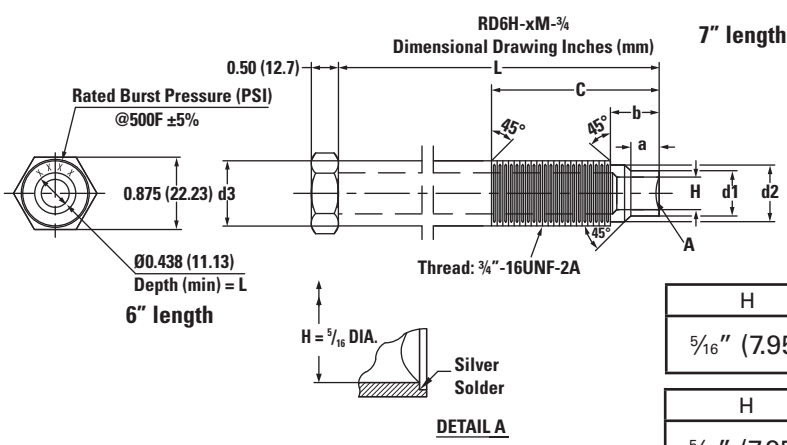
Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD2-34-3.5M	¾" 16 UNF	2-½"	Slotted	None	3,500
ERD2-34-4.5M	¾" 16 UNF	2-½"	Slotted	None	4,500
ERD2-34-5M	¾" 16 UNF	2-½"	Slotted	None	5,000
ERD2-34-7.5M	¾" 16 UNF	2-½"	Slotted	None	7,500
ERD2-34-8.5M	¾" 16 UNF	2-½"	Slotted	None	8,500
ERD2-34-9M	¾" 16 UNF	2-½"	Slotted	None	9,000
ERD2-34-9.5M	¾" 16 UNF	2-½"	Slotted	None	9,500
ERD4H34-3.5M	¾" 16 UNF	4"	Hex	None	3,500
ERD4H34-4.5M	¾" 16 UNF	4"	Hex	None	4,500
ERD4H34-5M	¾" 16 UNF	4"	Hex	None	5,000
ERD4H34-7.5M	¾" 16 UNF	4"	Hex	None	7,500
ERD4H34-8.5M	¾" 16 UNF	4"	Hex	None	8,500
ERD4H34-9M	¾" 16 UNF	4"	Hex	None	9,000
ERD4H34-9.5M	¾" 16 UNF	4"	Hex	None	9,500
ERD4H34-3.5M12	¾" 16 UNF	4"	Hex	½" NPT	3,500
ERD4H34-4.5M12	¾" 16 UNF	4"	Hex	½" NPT	4,500
ERD4H34-5M12	¾" 16 UNF	4"	Hex	½" NPT	5,000
ERD4H34-7.5M12	¾" 16 UNF	4"	Hex	½" NPT	7,500
ERD4H34-8.5M12	¾" 16 UNF	4"	Hex	½" NPT	8,500
ERD4H34-9M12	¾" 16 UNF	4"	Hex	½" NPT	9,000
ERD4H34-9.5M12	¾" 16 UNF	4"	Hex	½" NPT	9,500
ERD4H34S3.5M12	¾" 16 UNF Short Thread	4"	Hex	½" NPT	3,500
ERD4H34S4.5M12		4"	Hex	½" NPT	4,500
ERD4H34S5M12		4"	Hex	½" NPT	5,000
ERD4H34S7.5M12		4"	Hex	½" NPT	7,500
ERD4H34S8.5M12		4"	Hex	½" NPT	8,500
ERD4H34S9M12		4"	Hex	½" NPT	9,000
ERD4H34S9.5M12		4"	Hex	½" NPT	9,500

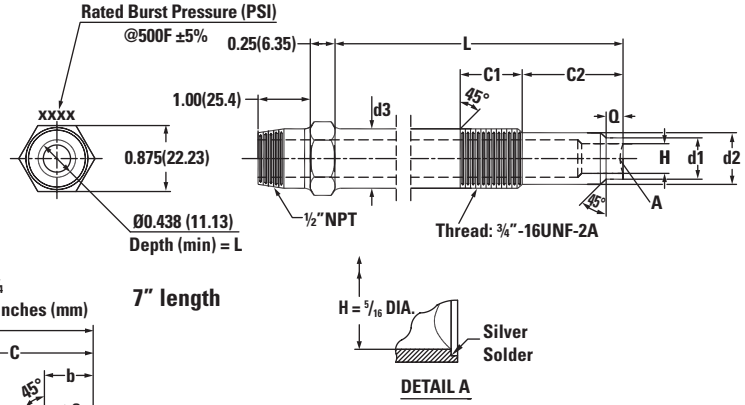
GPMS Rupture Disks

¾" – 16 Mounting Thread

GLOBAL PLASTIC MOULDING SUPPLIES

6" & 7" Length





GPMS RUPTURE DISKS

H	d1	d2	d3
5/16" (7.95)	ø0.500 (12.70) ø0.495 (12.57)	ø0.665 (16.89) ø0.655 (16.64)	ø0.66 (16.76)

H	d1	d2	d3
5/16" (7.95)	ø0.500 (12.70) ø0.495 (12.57)	ø0.665 (16.89) ø0.655 (16.64)	ø0.75 (19.05)

6" Length Specifications

a	b	C	L
0.300 (7.62) 0.312 (7.93)	0.545 (13.84)	2.70 (68.58)	6.00 (152.4)

7" Length Specifications

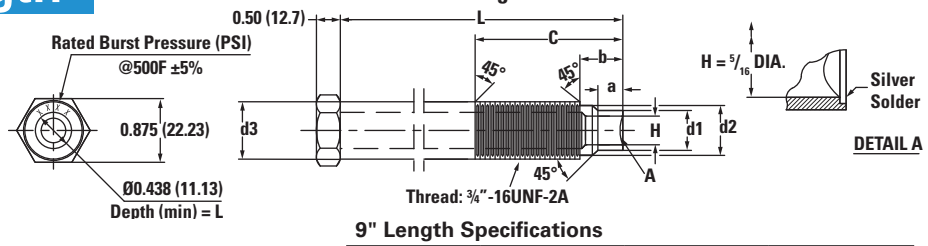
Q	C1	C2	L
0.312 (7.93) 0.300 (7.62)	1.10 (27.94)	1.60 (40.64)	7.00 (177.8)

Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD6H34-3.5M	¾" 16 UNF	6"	Hex	None	3,500
ERD6H34-4.5M	¾" 16 UNF	6"	Hex	None	4,500
ERD6H34-5M	¾" 16 UNF	6"	Hex	None	5,000
ERD6H34-7.5M	¾" 16 UNF	6"	Hex	None	7,500
ERD6H34-8.5M	¾" 16 UNF	6"	Hex	None	8,500
ERD6H34-9M	¾" 16 UNF	6"	Hex	None	9,000
ERD6H34-9.5M	¾" 16 UNF	6"	Hex	None	9,500
ERD7H34-3.5M12	¾" 16 UNF	7"	Hex	½" NPT	3,500
ERD7H34-4.5M12	¾" 16 UNF	7"	Hex	½" NPT	4,500
ERD7H34-5M12	¾" 16 UNF	7"	Hex	½" NPT	5,000
ERD7H34-7.5M12	¾" 16 UNF	7"	Hex	½" NPT	7,500
ERD7H34-8.5M12	¾" 16 UNF	7"	Hex	½" NPT	8,500
ERD7H34-9M12	¾" 16 UNF	7"	Hex	½" NPT	9,000
ERD7H34-9.5M12	¾" 16 UNF	7"	Hex	½" NPT	9,500
ERD7H34S3.5M12	¾" 16 UNF Short Thread	7"	Hex	½" NPT	3,500
ERD7H34S4.5M12		7"	Hex	½" NPT	4,500
ERD7H34S5M12		7"	Hex	½" NPT	5,000
ERD7H34S7.5M12		7"	Hex	½" NPT	7,500
ERD7H34S8.5M12		7"	Hex	½" NPT	8,500
ERD7H34S9M12		7"	Hex	½" NPT	9,000
ERD7H34S9.5M12		7"	Hex	½" NPT	9,500

GLOBAL PLASTIC MOULDING SUPPLIES

9" & 12" Length

9" Length

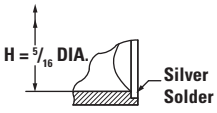


9" Length Specifications

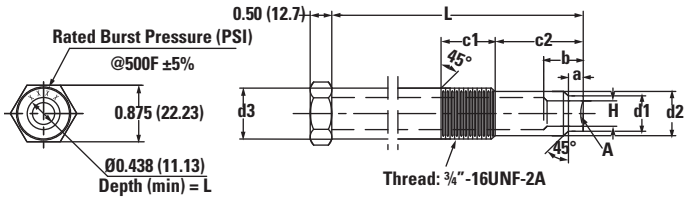
a	b	C	L
0.300 (7.62) 0.312 (7.93)	0.545 (13.84)	2.70 (68.58)	9.00 (228.6)

H	d1	d2	d3
5/16" (7.95)	ø0.500 (12.70) ø0.495 (12.57)	ø0.665 (16.89) ø0.655 (16.64)	ø0.66 (16.76)

GPMS RUPTURE DISKS



12" Length



12" Length Specifications

a	b	c1	c2	L
0.300 (7.62) 0.312 (7.93)	0.545 (13.84)	1.10 (27.94)	1.60 (40.64)	12.00 (304.8)

H	d1	d2	d3
5/16" (7.95)	ø0.50 (12.70) ø0.495 (12.57)	ø0.665 (16.89) ø0.655 (16.64)	ø0.66 (16.76)

Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD9H34S3.5M	¾" 16 UNF Short Thread	9"	Hex	None	3,500
ERD9H34S4.5M		9"	Hex	None	4,500
ERD9H34S5M		9"	Hex	None	5,000
ERD9H34S7.5M		9"	Hex	None	7,500
ERD9H34S8.5M		9"	Hex	None	8,500
ERD9H34S9M		9"	Hex	None	9,000
ERD9H34S9.5M		9"	Hex	None	9,500
ERD12H34S3.5M	¾" 16 UNF Short Thread	12"	Hex	None	3,500
ERD12H34S4.5M		12"	Hex	None	4,500
ERD12H34S5M		12"	Hex	None	5,000
ERD12H34S7.5M		12"	Hex	None	7,500
ERD12H34S8.5M		12"	Hex	None	8,500
ERD12H34S9M		12"	Hex	None	9,000
ERD12H34S9.5M		12"	Hex	None	9,500

GPMS Rupture Disks

5/8" – 11 Mounting Thread

GLOBAL PLASTIC MOULDING SUPPLIES

GPMS RUPTURE DISKS

4" & 6" Length

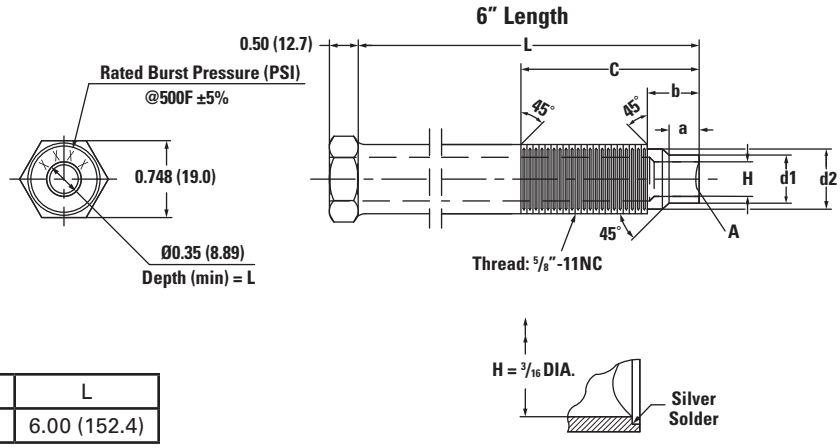
Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD4H58-1.5M	5/8"11 NC	4"	Hex	None	1,500
ERD4H58-2.5M	5/8"11 NC	4"	Hex	None	2,500
ERD4H58-3.5M	5/8"11 NC	4"	Hex	None	3,500
ERD4H58-4.5M	5/8"11 NC	4"	Hex	None	4,500
ERD4H58-5.5M	5/8"11 NC	4"	Hex	None	5,500
ERD4H58-6.5M	5/8"11 NC	4"	Hex	None	6,500
ERD4H58-7.5M	5/8"11 NC	4"	Hex	None	7,600
ERD4H58-8.5M	5/8"11 NC	4"	Hex	None	8,500
ERD4H58-9.5M	5/8"11 NC	4"	Hex	None	9,500
ERD4H58-10.5M	5/8"11 NC	4"	Hex	None	10,500
ERD4H58-12.5M	5/8"11 NC	4"	Hex	None	12,500
ERD4H58-15M	5/8"11 NC	4"	Hex	None	15,000
ERD6H58-1.5M	5/8"11 NC	6"	Hex	None	1,500
ERD6H58-2.5M	5/8"11 NC	6"	Hex	None	2,500
ERD6H58-3.5M	5/8"11 NC	6"	Hex	None	3,500
ERD6H58-4.5M	5/8"11 NC	6"	Hex	None	4,500
ERD6H58-5.5M	5/8"11 NC	6"	Hex	None	5,500
ERD6H58-6.5M	5/8"11 NC	6"	Hex	None	6,500
ERD6H58-7.5M	5/8"11 NC	6"	Hex	None	7,600
ERD6H58-8.5M	5/8"11 NC	6"	Hex	None	8,500
ERD6H58-9.5M	5/8"11 NC	6"	Hex	None	9,500
ERD6H58-10.5M	5/8"11 NC	6"	Hex	None	10,500
ERD6H58-12.5M	5/8"11 NC	6"	Hex	None	12,500
ERD6H58-15M	5/8"11 NC	6"	Hex	None	15,000
ERD6H58-1.5M14	5/8"11 NC	6"	Hex	1/4"NPT	1,500
ERD6H58-2.5M14	5/8"11 NC	6"	Hex	1/4"NPT	2,500
ERD6H58-3.5M14	5/8"11 NC	6"	Hex	1/4"NPT	3,500
ERD6H58-4.5M14	5/8"11 NC	6"	Hex	1/4"NPT	4,500
ERD6H58-5.5M14	5/8"11 NC	6"	Hex	1/4"NPT	5,500
ERD6H58-6.5M14	5/8"11 NC	6"	Hex	1/4"NPT	6,500
ERD6H58-7.5M14	5/8"11 NC	6"	Hex	1/4"NPT	7,600
ERD6H58-8.5M14	5/8"11 NC	6"	Hex	1/4"NPT	8,500
ERD6H58-9.5M14	5/8"11 NC	6"	Hex	1/4"NPT	9,500
ERD6H58-10.5M14	5/8"11 NC	6"	Hex	1/4"NPT	10,500
ERD6H58-12.5M14	5/8"11 NC	6"	Hex	1/4"NPT	12,500
ERD6H58-15M14	5/8"11 NC	6"	Hex	1/4"NPT	15,000

*Note: 4" length drawing currently unavailable.
See following page for 6" length drawing.

GLOBAL PLASTIC MOULDING SUPPLIES

6" Length

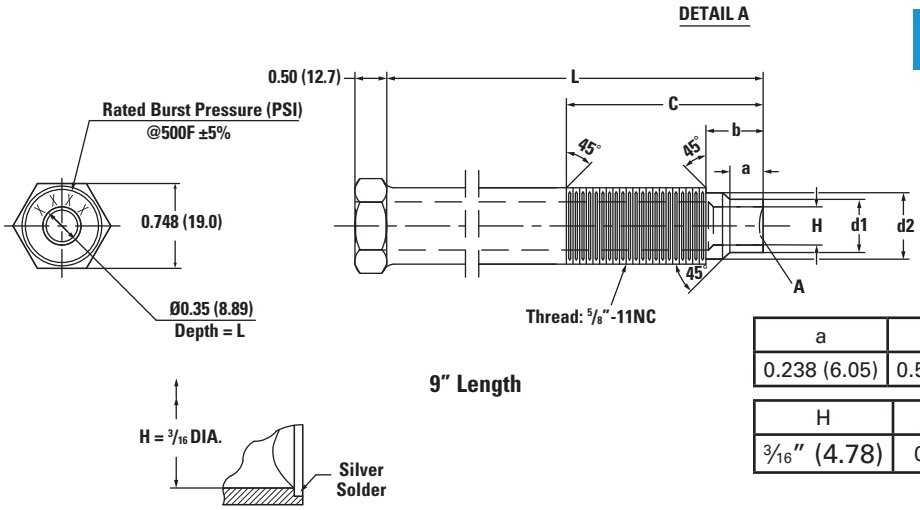
GPMS RUPTURE DISKS



a	b	C	L
0.238 (6.05)	0.554 (14.07)	2.75 (69.85)	6.00 (152.4)

H	d1	d2
3/16" (4.78)	0.354 (8.99)	0.488 (12.40)

9" Length



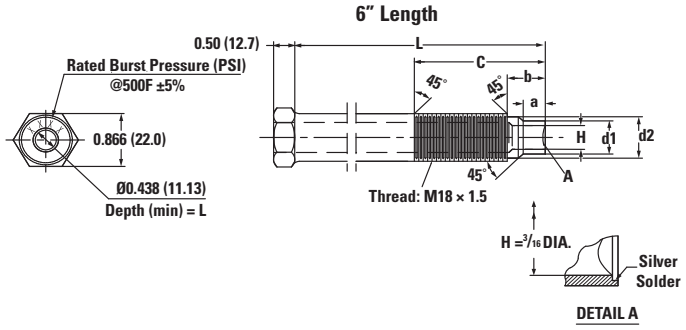
a	b	C	L
0.238 (6.05)	0.554 (14.07)	2.75 (69.85)	9.00 (228.6)

H	d1	d2
3/16" (4.78)	0.354 (8.99)	0.488 (12.40)

Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD9H58-1.5M	5/8"11 NC	9"	Hex	None	1,500
ERD9H58-2.5M	5/8"11 NC	9"	Hex	None	2,500
ERD9H58-3.5M	5/8"11 NC	9"	Hex	None	3,500
ERD9H58-4.5M	5/8"11 NC	9"	Hex	None	4,500
ERD9H58-5.5M	5/8"11 NC	9"	Hex	None	5,500
ERD9H58-6.5M	5/8"11 NC	9"	Hex	None	6,500
ERD9H58-7.5M	5/8"11 NC	9"	Hex	None	7,600
ERD9H58-8.5M	5/8"11 NC	9"	Hex	None	8,500
ERD9H58-9.5M	5/8"11 NC	9"	Hex	None	9,500
ERD9H58-10.5M	5/8"11 NC	9"	Hex	None	10,500
ERD9H58-12.5M	5/8"11 NC	9"	Hex	None	12,500
ERD9H58-15M	5/8"11 NC	9"	Hex	None	15,000

GPMS Rupture Disks

M18 × 1.5 Mounting Thread



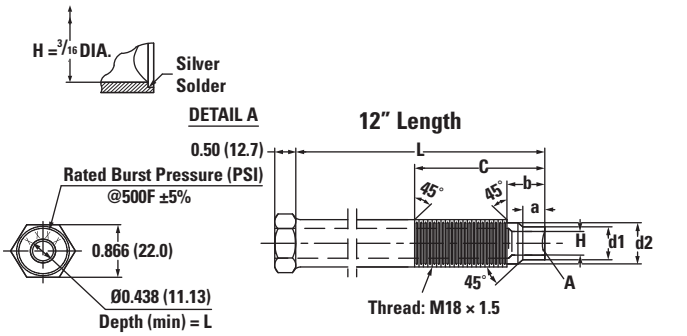
GLOBAL PLASTIC MOULDING SUPPLIES

6" & 12" Length

GPMS RUPTURE DISKS

a	b	C	L
0.250 (6.35) 0.234 (5.94)	0.50 (12.7)	1.63 (41.40)	6.00 (152.4)

H	d1	d2
3/16" (4.78)	ø0.397 (10.08) ø0.392 (9.96)	ø0.632 (16.05) ø0.627 (15.93)



a	b	C	L
0.250 (6.35) 0.234 (5.94)	0.50 (12.7)	1.63 (41.40)	12.00 (304.8)

H	d1	d2
3/16" (4.78)	ø0.397 (10.08) ø0.392 (9.96)	ø0.632 (16.05) ø0.627 (15.93)

Part Number	Mounting Thread	Length	Head Styles	Discharge Connection	Burst Pressure
ERD6HM18-1.5M	M18 × 1.5	6"	Hex	None	1,500
ERD6HM18-2.5M	M18 × 1.5	6"	Hex	None	2,500
ERD6HM18-3.5M	M18 × 1.5	6"	Hex	None	3,500
ERD6HM18-4.5M	M18 × 1.5	6"	Hex	None	4,500
ERD6HM18-5.5M	M18 × 1.5	6"	Hex	None	5,500
ERD6HM18-6.5M	M18 × 1.5	6"	Hex	None	6,500
ERD6HM18-7.5M	M18 × 1.5	6"	Hex	None	7,600
ERD6HM18-8.5M	M18 × 1.5	6"	Hex	None	8,500
ERD6HM18-9.5M	M18 × 1.5	6"	Hex	None	9,500
ERD6HM18-10.5M	M18 × 1.5	6"	Hex	None	10,500
ERD6HM18-12.5M	M18 × 1.5	6"	Hex	None	12,500
ERD6HM18-15M	M18 × 1.5	6"	Hex	None	15,000
ERD12HM18-1.5M	M18 × 1.5	12"	Hex	None	1,500
ERD12HM18-2.5M	M18 × 1.5	12"	Hex	None	2,500
ERD12HM18-3.5M	M18 × 1.5	12"	Hex	None	3,500
ERD12HM18-4.5M	M18 × 1.5	12"	Hex	None	4,500
ERD12HM18-5.5M	M18 × 1.5	12"	Hex	None	5,500
ERD12HM18-6.5M	M18 × 1.5	12"	Hex	None	6,500
ERD12HM18-7.5M	M18 × 1.5	12"	Hex	None	7,600
ERD12HM18-8.5M	M18 × 1.5	12"	Hex	None	8,500
ERD12HM18-9.5M	M18 × 1.5	12"	Hex	None	9,500
ERD12HM18-10.5M	M18 × 1.5	12"	Hex	None	10,500
ERD12HM18-12.5M	M18 × 1.5	12"	Hex	None	12,500
ERD12HM18-15M	M18 × 1.5	12"	Hex	None	15,000

For Injection Molding Machines and Die Casting

UNISORB Quantum IM Mounts provide optimum leveling and alignment in minutes, without anchoring either the machine or mounts to the floor. Designed especially for injection molding and die casting machines, UNISORB Quantum IM Mounts dampen both vertical and horizontal impacts found in reciprocating machines. UNISORB Quantum IM Mounts meet applicable OSHA requirements.

The Maximum Adjustment Range

These mounts are truly a quantum leap in machine mount technology. Every model in the Quantum IM line provides an overall adjustment range of $1\frac{3}{8}$ inches. This range goes well beyond all of UNISORB's competitors worldwide. In addition, UNISORB's line of Quantum IM Mounts is available in a wide variety of sizes and configurations, and all share these time-tested durability features:

- Rugged ductile housing
- Heavy-duty impact plate
- Resilient anti-walk isolation pad
- High-strength steel adjustment bolt
- Constant horizontal natural frequency

The Housing

The housing and impact plate of the Quantum IM Mounts are made of ductile iron, meeting Foundry Spec. 65-45-12. This tested and proven design is virtually indestructible even in the toughest high-speed injection molding applications.

The Isolation Pad

All Quantum IM Mount isolation pads consist of proprietary formulated elastomers. The unique internal design of UNISORB's Quantum IM Mounts eliminates the interdependence between vertical adjustment and horizontal stiffness found in other mount designs. This design ensures that each mounting point presents identical horizontal and vertical load deflection characteristics to the machine regardless of adjustment height.

The Adjusting Bolt

The true hex head adjusting bolt is made with high-strength Grade 5 steel to withstand punishment that would shear off most other bolts. In addition, the finer thread pitch on the adjusting bolt provides greater mechanical advantage and offers a higher degree of accuracy in adjustment, making installation convenient and foolproof. Standard bolts are provided with metric threads and special bolt lengths are available upon request.

UNISORB®
INSTALLATION TECHNOLOGIES

Quantum IM Mounts

Precision Engineering for Horizontal Impact

The isolation pad is engineered to provide optimum performance. This design yields smoother, quieter operation and longer mount life. The sure fit of the isolation pad enhances the mount's ability to absorb the horizontal impact forces caused by machine operation.

Weight and Force are Distributed Evenly

The unique patented design of the isolation pad to mount housing interface results in the uniform distribution of applied forces. The Quantum IM Mounts are unmatched in controlling extreme machine induced dynamic loads. This eliminates "walking," excessive machine motion and mount failures typical of general purpose mounts in these applications.

Prevents Machine Walking

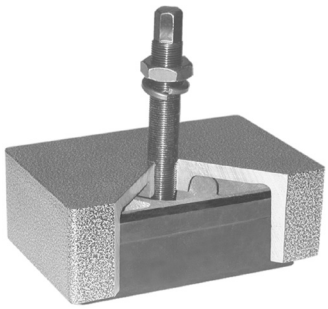
The rectangular shape of the Quantum IM Mount is yet another advantage. While providing greater resistance to machine "walking" than circular mounts, the straight leading edge surface on the rectangular mount has proven to be more geometrically stable. This helps eliminate pad roll and entrapment of coolants and oils beneath the pad. In addition, each isolation pad is engineered to possess an exceptionally high coefficient of friction that also prevents machine "walking."

The Industry's Most Extensive Range of Size and Configuration

A wide variety of different mount sizes and configurations are available to meet the requirement of any injection molding or die casting machine application. Many of the Quantum IM Mounts are height compatible, so it is possible to mix and match different sized mounts to accommodate differing load configurations. Custom-sized Quantum IM Mounts are also available upon request.

UNISORB Quantum IM Mount Benefits:

- Increased equipment life
- Simplified machine installation
- Fast, accurate alignment
- Reduced shock and vibration
- Elimination of anchor bolts
- Uneven floors accommodated
- Machine "walking" prevented
- Controls horizontal dynamics



Quantum IM Injection Molding Machine Mounts

QUANTUM IM MOUNTS

Part Number	L × W × H (min./max.) Inches	Std. Bolt Size	Max. Load (lbs)
IM51M12N90	5.5 × 3.5 × 2.50/3.88	M12 × 1.75 × 150	3,000
IM51M16N90	5.5 × 3.5 × 2.50/3.88	M16 × 2 × 150	3,000
IM61M16N90	7.00 × 4.50 × 2.50/3.88	M16 × 2 × 150	6,000
IM61M20N90	7.00 × 4.50 × 2.50/3.88	M20 × 1.5 × 150	6,000
IM61M24N90	7.00 × 4.50 × 2.50/3.88	M24 × 2 × 150	6,000
IM71M20N90	8.00 × 5.00 × 2.50/3.88	M20 × 1.5 × 150	9,000
IM71M24N90	8.00 × 5.00 × 2.50/3.88	M24 × 2 × 150	9,000
IM81M20N90	8.00 × 5.88 × 2.50/3.88	M20 × 1.5 × 150	9,000
IM81M24N90	8.00 × 5.88 × 2.50/3.88	M24 × 2 × 150	12,000
IM81M24NTS	8.00 × 5.88 × 2.50/3.88	M24 × 2 × 150	16,000
IM81M30NTS	8.00 × 5.88 × 2.50/3.88	M30 × 2 × 150	16,000
IM101M24NTS	10.00 × 7.88 × 3.25/4.63	M24 × 2 × 150	16,000
IM101M30NTS	10.00 × 7.88 × 3.25/4.63	M30 × 2 × 150	25,000

Machine Mount Worksheet

ONLINE FORM

Please complete this worksheet and send via fax (888-808-4363) or DME@dme.net.

Company:		Contact Name:	
Account Number:		Phone:	
Address:		Fax :	
City:		E-mail:	

ELECTRONIC QUOTE REQUEST FORM

or visit
www.dme.net/rfq

MACHINE MANUFACTURER:

TYPE OF MACHINE:

MODEL NO: SERIAL NO:

MACHINE WEIGHT: MOLD WEIGHT (IF APPLICABLE):

OF MOUNTING POINTS: FOOT L × W × THICKNESS: × ×

MOUNTING HOLE DIA: MAX. TOP WASHER DIA:

MAX STUD LENGTH:

WHAT PROBLEM ARE WE SOLVING?:

☐ NEW ☐ USED (PREVIOUS INSTALLATION APPROACH)

COMMENTS:

OPTIONAL MACHINE LAYOUT
(YOU MAY USE THIS SPACE TO PROVIDE A SKETCH WITH ADDITIONAL DETAIL AND/OR WEIGHT DISTRIBUTION IF NEEDED.)

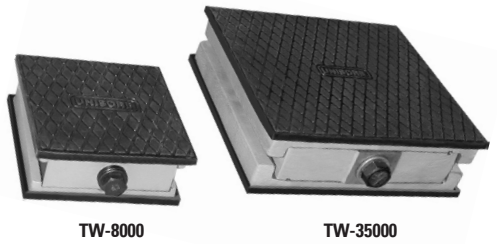
Unisorb Machine Mounts

Tri-Wedge Mounts

The UNISORB Tri-Wedges Mount series is available in two sizes. The TW8000 and TW35000 are load rated at 8,000 and
35,000 lbs. respectively. These similarly designed Tri-Wedge Mounts both utilize two stationary and one sliding wedge to provide mechanical lift for the mounts. An adjustment bolt moves the center wedge fore & aft between the stationary wedges to provide lift to the top wedge. Each model has height ranges based on the position of a retainer within the mounts. The retainer (shaded in the illustration at right) can be placed in one of two retaining sockets. Placing the retainer in the socket nearest to the adjusting bolt head moves the mount through the lower height range. Positioning the retainer in the rear socket moves the mount through the upper height range.

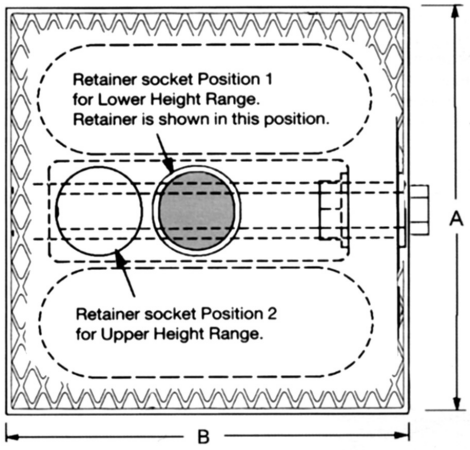
Both models may be used either with or without pads. The pads provide excellent isolation from vibrations between the machine base, the mounts and the floor. Each pad is recessed approximately 1/8 of an inch to allow for a secure fit over the edges of the top and bottom of the mounts. The thickness of the pads is approximately 1/4 inch. The TW35000 is available with an optional vertical stud (see tables below). In addition to providing precision leveling capability, these mounts also will prevent machines from walking.

- Heavy-duty machinery mount system
- Two height ranges in one mount
- Easily accessible side adjustment
- Use for all in-place alignment and leveling
- Pads provide vibration isolation
- Patented designs on mounts and pads

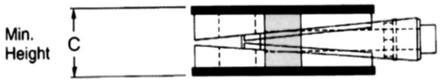


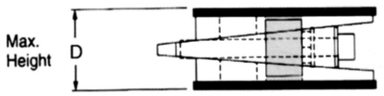
TW-8000 TW-35000

Unisorb Tri-Wedge Mounts for Injection Molding Machines

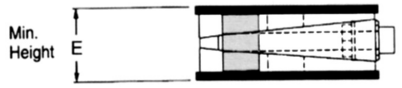


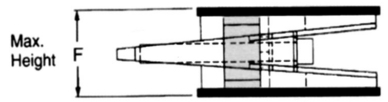
LOWER HEIGHT RANGE





UPPER HEIGHT RANGE





Specifications						
Unisorb Machine Mount	**A**	**B**	**C**	**D**	**E**	**F**
TW-8000	**5.31**	**5.31**	**2.00**	**2.30**	**2.20**	**2.50**
TW-35000	**9.40**	**8.40**	**2.46**	**2.91**	**2.75**	**3.20**
TW-35000 with STUD	**9.40**	**8.40**	**2.52**	**2.91**	**2.75**	**3.08**

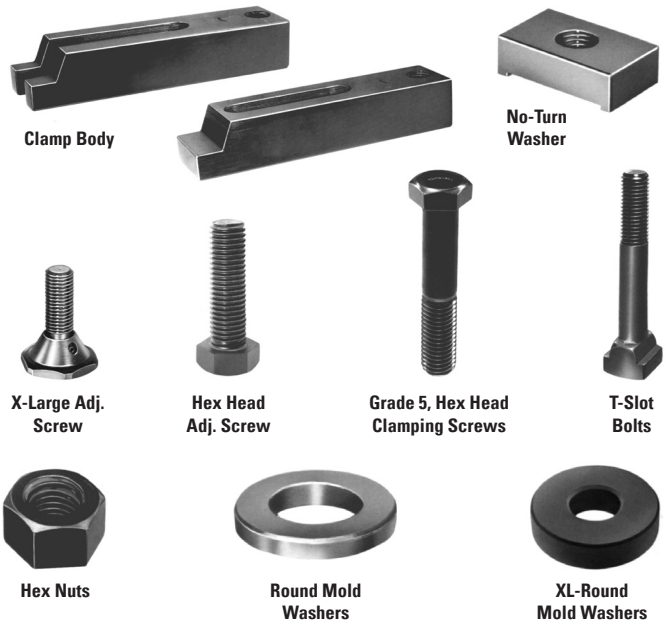
All dimensions in inches, includes pads, and may vary slightly between runs. Height dimensions shown are with no load.

Part Number	Includes	L × W × H (min./max.) inches	Max. Load (lbs)
TW8000NP	No Pads	5.31 × 5.31 × 2.00/2.50	8000
TW8000TP	Two Pads	5.31 × 5.31 × 2.00/2.50	8000
TW35000NP	No Pads	9.40 × 8.40 × 2.46/3.20	35000
TW35000TP	Two Pads	9.40 × 8.40 × 2.46/3.20	35000
TW35000TPS	Two Pads and Stud	9.40 × 8.40 × 2.52/3.08	35000

TOPS-ALL

- A fast-adjusting, easy-to-handle design that reduces setup time
- Each clamp built to strict standards of premium quality steel, hardened for long-lasting life with black penetrate finish to prevent rust
- Available as complete assemblies or as individual parts

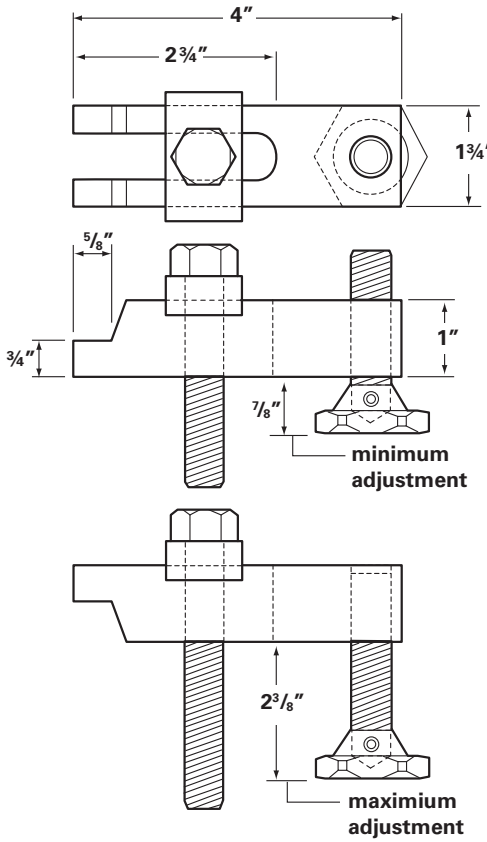
MACHINED MOLD CLAMPS



TopsAll® Machined Mold Clamps

4" Machined Open Toe Clamp - ⅝ – 11 Thread

* Items are included in kit



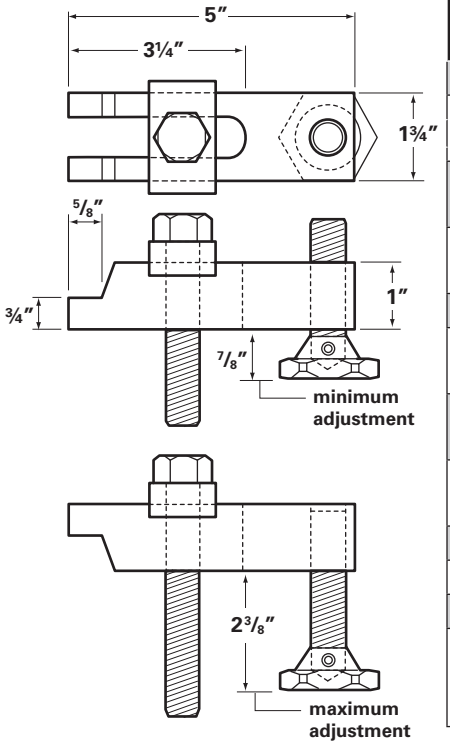
Part Number	Description
HD584*	4" Heavy-Duty Open Toe Clamp Body
S5832	Grade 5, Hex Head Clamping Screw, 3¼" Under Hex
S5835*	Grade 5, Hex Head Clamping Screw, 3½" Under Hex
S5837	Grade 5, Hex Head Clamping Screw, 3¾" Under Hex
H58	Hex Head Adjusting Screw
RW58	Round Mold Washer, ⅝ I.D., 1¼" O.D., ¼" Thickness
RW586	Extra Large Round Mold Washer, ⅝" I.D., 1 3/4" O.D., ½" Thickness
SW587*	No-Turn Washer for ⅝–11 Thread, 2¼" Length
H585*	Extra Large Adjusting Screw - 3" Overall Length
TB5845	High-Strength T-Slot Bolt, 4½" Length
N58	Heavy-Duty Hex Nut for T-Slot Bolt
TAC584A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

Machined Mold Clamps

5" Machined Open Toe Clamp - ⅝ –11 Thread

MACHINED MOLD CLAMPS

* Items are included in kit

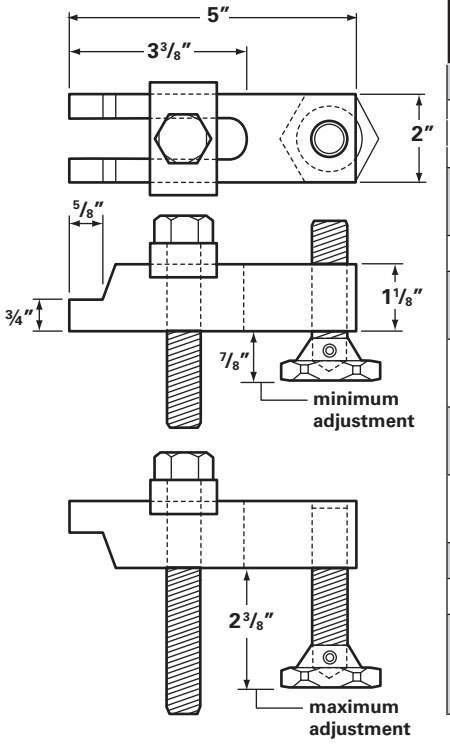


Part Number	Description
HD585*	5" Heavy-Duty Open Toe Clamp Body
S5832	Grade 5, Hex Head Clamping Screw, 3¼" Under Hex
S5835*	Grade 5, Hex Head Clamping Screw, 3½" Under Hex
S5837	Grade 5, Hex Head Clamping Screw, 3¾" Under Hex
H58	Hex Head Adjusting Screw
RW58	Round Mold Washer, ⅝" I.D., 1¼" O.D., ¼" Thickness
RW586	Extra Large Round Mold Washer, ⅝" I.D., 1¾" O.D., ½" Thickness
SW587*	No-Turn Washer for ⅝–11 Thread, 2¼" Length
H585*	Extra Large Adjusting Screw - 3" O.A.L.
TB5845	High-Strength T-Slot Bolt, 4½" Length
N58	Heavy-Duty Hex Nut for T-Slot Bolt
TAC585A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

5" Machined Open Toe Clamp - ¾ –10 Thread

* Items are included in kit

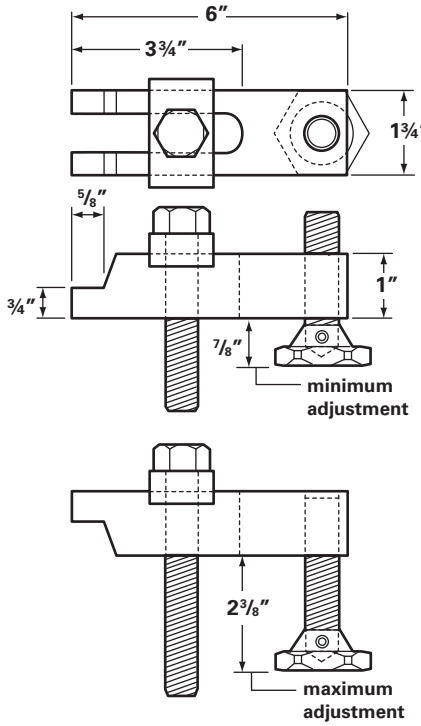


Part Number	Description
HD755*	5" Heavy-Duty Open Toe Clamp Body
S7540*	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757*	No-Turn Washer for ¾–10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L.
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
TAC755A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

Machined Mold Clamps

6" Machined Open Toe Clamp - ⅝ – 11 Thread

MACHINED MOLD CLAMPS

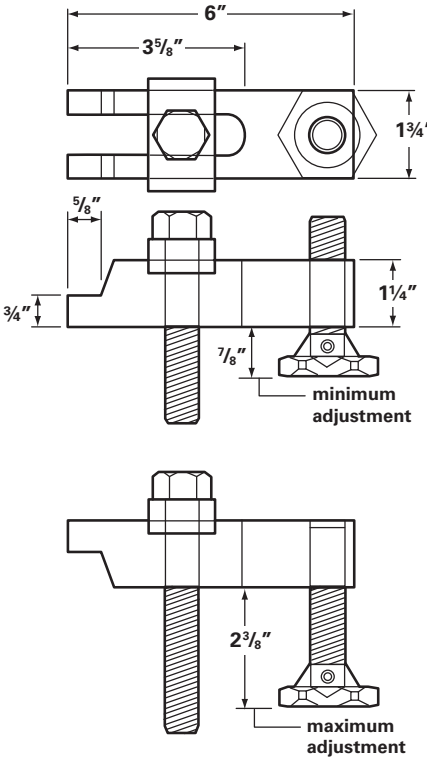


* Items are included in kit

Part Number	Description
HD586*	6" Heavy-Duty Open Toe Clamp Body
S5832	Grade 5, Hex Head Clamping Screw, 3¼" Under Hex
S5835*	Grade 5, Hex Head Clamping Screw, 3½" Under Hex
S5837	Grade 5, Hex Head Clamping Screw, 3¾" Under Hex
H58	Hex Head Adjusting Screw
RW58	Round Mold Washer, ⅝" I.D., 1¼" O.D., ¼" Thickness
RW586	Extra Large Round Mold Washer, ⅝" I.D., 1¾" O.D., ½" Thickness
SW587*	No-Turn Washer for ⅝–11 Thread, 2¼" Length
H585*	Extra Large Adjusting Screw - 3" O.A.L.
TB5845	High-Strength T-Slot Bolt, 4½" Length
N58	Heavy-Duty Hex Nut for T-Slot Bolt
TAC586A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

6" Extra Heavy-Duty Open Toe Clamp - ⅝ – 11 Thread



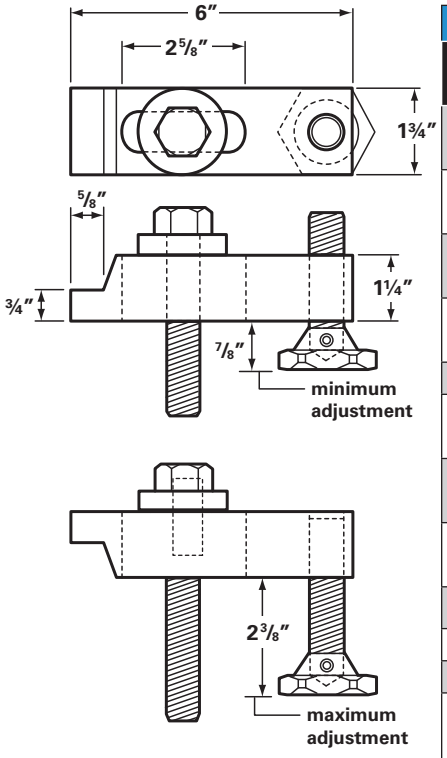
Extra Heavy Duty * Items are included in kit

Part Number	Description
XHD5860*	6" EXTRA Heavy-Duty Open Toe Clamp Body
S5832	Grade 5, Hex Head Clamping Screw, 3¼" Under Hex
S5835	Grade 5, Hex Head Clamping Screw, 3½" Under Hex
S5837*	Grade 5, Hex Head Clamping Screw, 3¾" Under Hex
H58	Hex Head Adjusting Screw
RW58	Round Mold Washer, ⅝" I.D., 1¼" O.D., ¼" Thickness
RW586	Extra-Large Round Mold Washer, ⅝" I.D., 1¾" O.D., ½" Thickness
SW587*	No-Turn Washer for ⅝–11 Thread, 2¼" Length
H585*	Extra-Large Adjusting Screw - 3" O.A.L.
TB5845	High-Strength T-Slot Bolt, 4½" Length
N58	Heavy-Duty Hex Nut for T-Slot Bolt
TAC5860A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

Machined Mold Clamps

6" Machined Closed Toe Clamp - 5/8 – 11 Thread

MACHINED MOLD CLAMPS



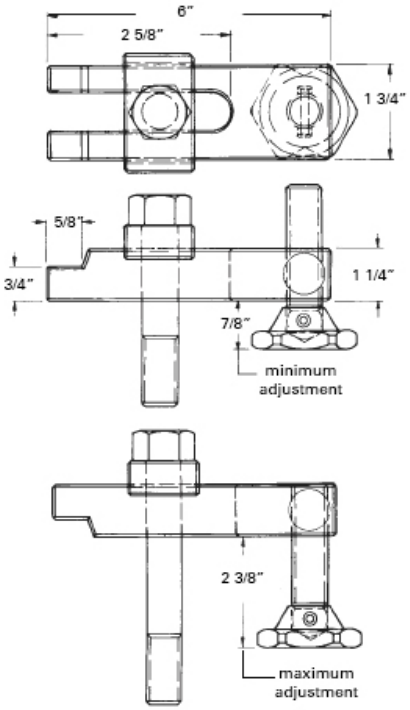
* Items are included in kit

Extra Heavy Duty	
Part Number	**Description**
XHD5861*	6" Extra Heavy-Duty Closed Toe Clamp Body
S5832	Grade 5, Hex Head Clamping Screw, 3¼" Under Hex
S5835	Grade 5, Hex Head Clamping Screw, 3½" Under Hex
S5837*	Grade 5, Hex Head Clamping Screw, 3¾" Under Hex
H58	Hex Head Adjusting Screw
RW58	Round Mold Washer, 5/8" I.D., 1¼" O.D., ¼" Thickness
RW586*	Extra Large Round Mold Washer, 5/8" I.D., 1¾" O.D., ½" Thickness
SW587	No-Turn Washer for 5/8-11 Thread, 2¼" Length
H585*	Extra Large Adjusting Screw - 3" O.A.L.
TB5845	High-Strength T-Slot Bolt, 4½" Length
N58	Heavy-Duty Hex Nut for T-Slot Bolt
TAC5861A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

6" Machined Open Toe Clamp - ¾ – 10 Thread

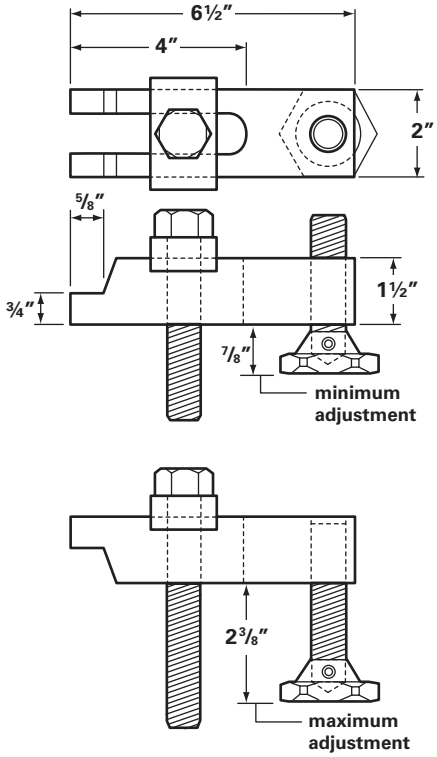
* Items are included in kit



Part Number	Description
HD756*	6" Heavy-Duty Open Toe Clamp Body
S7540*	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757*	No-Turn Washer for ¾–10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
TAC756A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

6½" Machined Open Toe Clamp - ¾ – 10 Thread

MACHINED MOLD CLAMPS

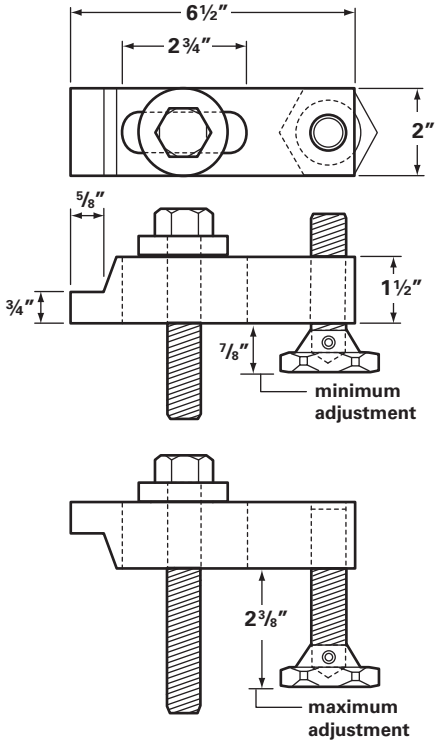


* Items are included in kit

Extra Heavy Duty	
Part Number	**Description**
XHD7565*	6½" Extra Heavy-Duty Open Toe Clamp Body
S7540	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545*	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757*	No-Turn Washer for ¾–10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
TAC7565A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

6½" Machined Closed Toe Clamp - ¾ – 10 Thread



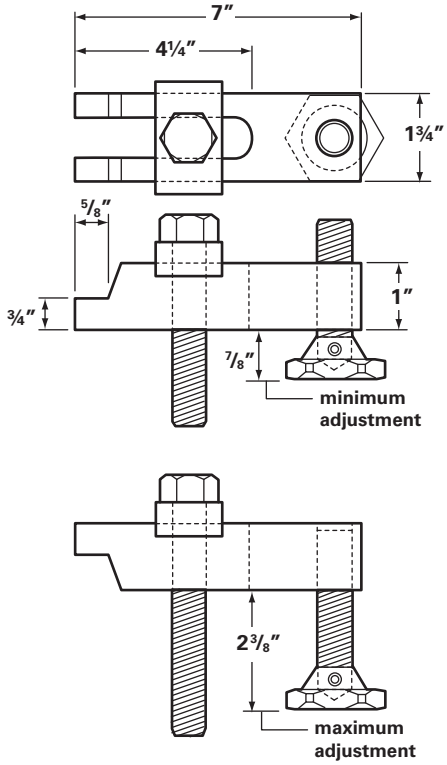
Extra Heavy Duty * Items are included in kit	
Part Number	**Description**
XHD7566*	6½" Extra Heavy-Duty Closed Toe Clamp Body
S7540	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545*	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756*	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757	No-Turn Washer for ¾–10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
TAC7566A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

Machined Mold Clamps

7" Machined Open Toe Clamp - ⅝ – 11 Thread

MACHINED MOLD CLAMPS

* Items are included in kit

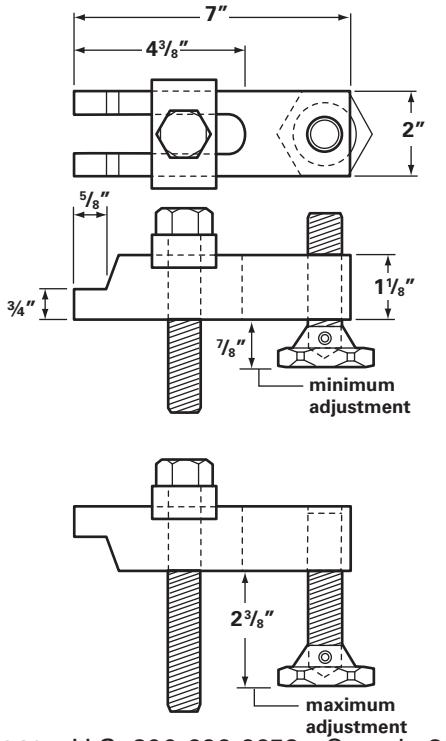


Part Number	Description
HD587*	7" Heavy-Duty Open Toe Clamp Body
S5832	Grade 5, Hex Head Clamping Screw, 3¼" Under Hex
S5835*	Grade 5, Hex Head Clamping Screw, 3½" Under Hex
S5837	Grade 5, Hex Head Clamping Screw, 3¾" Under Hex
H58	Hex Head Adjusting Screw
RW58	Round Mold Washer, ⅝" I.D., 1¼" O.D., ¼" Thickness
RW586	Extra Large Round Mold Washer, ⅝" I.D., 1¾" O.D., ½" Thickness
SW587*	No-Turn Washer for ⅝–11 Thread, 2¼" Length
H585*	Extra Large Adjusting Screw - 3" O.A.L.
TB5845	High-Strength T-Slot Bolt, 4½" Length
N58	Heavy-Duty Hex Nut for T-Slot Bolt
TAC587A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

7" Machined Open Toe Clamp - ¾ – 10 Thread

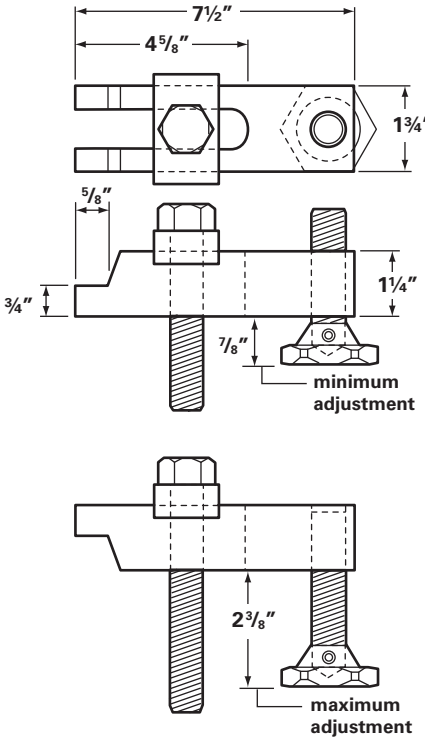
* Items are included in kit



Part Number	Description
HD757*	7" Heavy-Duty Open Toe Clamp Body
S7540*	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757*	No-Turn Washer for ¾ –10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L.
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
TAC757A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

7½" Machined Open Toe Clamp - ⅝ – 11 Thread

MACHINED MOLD CLAMPS

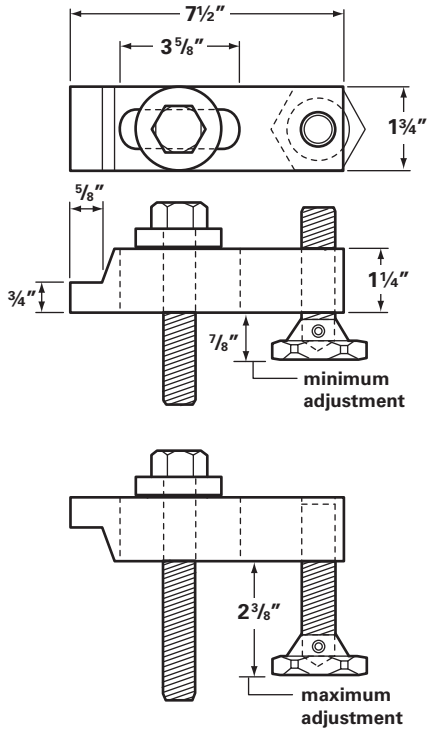


* Items are included in kit

Extra Heavy Duty	
Part Number	**Description**
XHD5875*	7½" Extra Heavy-Duty Open Toe Clamp Body
S5832	Grade 5, Hex Head Clamping Screw, 3¼" Under Hex
S5835	Grade 5, Hex Head Clamping Screw, 3½" Under Hex
S5837*	Grade 5, Hex Head Clamping Screw, 3¾" Under Hex
H58	Hex Head Adjusting Screw
RW58	Round Mold Washer, ⅝ I.D., 1¼" O.D., ¼" Thickness
RW586	Extra Large Round Mold Washer, ⅝" I.D., 1¾" O.D., ½" Thickness
SW587*	No-Turn Washer for ⅝–11 Thread, 2¼" Length
H585*	Extra Large Adjusting Screw - 3" O.A.L.
TB5845	High-Strength T-Slot Bolt, 4½" Length
N58	Heavy-Duty Hex Nut for T-Slot Bolt
TAC5875A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

7½" Machined Closed Toe Clamp - ⅝ – 11 Thread



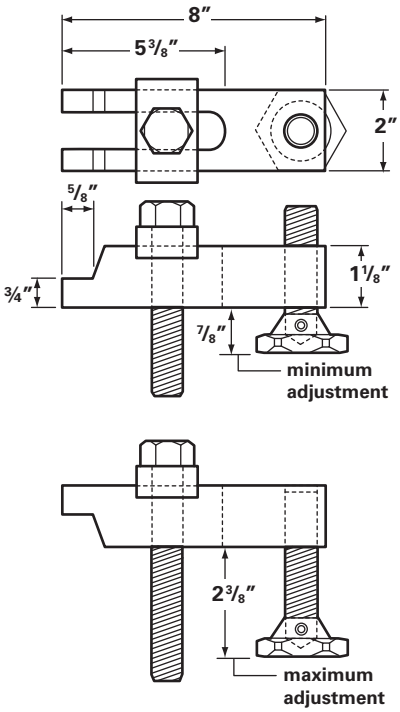
Extra Heavy Duty	* Items are included in kit
Part Number	**Description**
XHD5876*	7½" Extra Heavy-Duty Closed Toe Clamp Body
S5832	Grade 5, Hex Head Clamping Screw, 3¼" Under Hex
S5835	Grade 5, Hex Head Clamping Screw, 3½" Under Hex
S5837*	Grade 5, Hex Head Clamping Screw, 3¾" Under Hex
H58	Hex Head Adjusting Screw
RW58*	Round Mold Washer, ⅝ I.D., 1¼" O.D., ¼" Thickness
RW586	Extra Large Round Mold Washer, ⅝" I.D., 1¾" O.D., ½" Thickness
SW587	No-Turn Washer for ⅝–11 Thread, 2¼" Length
H585*	Extra Large Adjusting Screw - 3" O.A.L.
TB5845	High-Strength T-Slot Bolt, 4½" Length
N58	Heavy-Duty Hex Nut for T-Slot Bolt
TAC5876A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

Machined Mold Clamps

8" Machined Open Toe Clamp - ¾ – 10 Thread

MACHINED MOLD CLAMPS

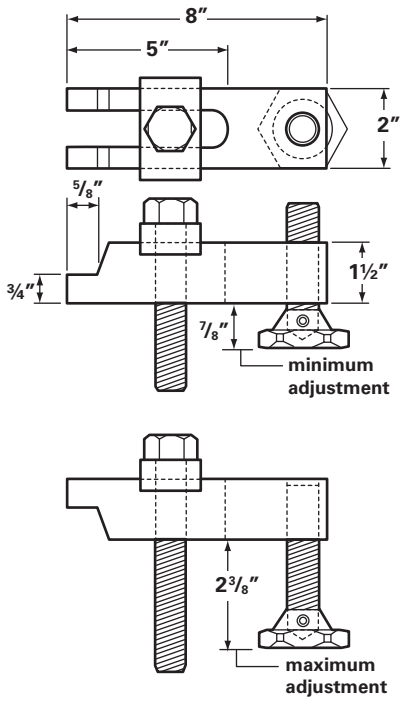
* Items are included in kit



Part Number	Description
HD758*	8" Heavy-Duty Open Toe Clamp Body
S7540*	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757*	No-Turn Washer for ¾–10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L.
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
HX6	Case Hardened Hex Nut for T-Slot Bolts -1¼" across flats
TAC758A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

8" Machined Open Toe Clamp - ¾ – 10 Thread



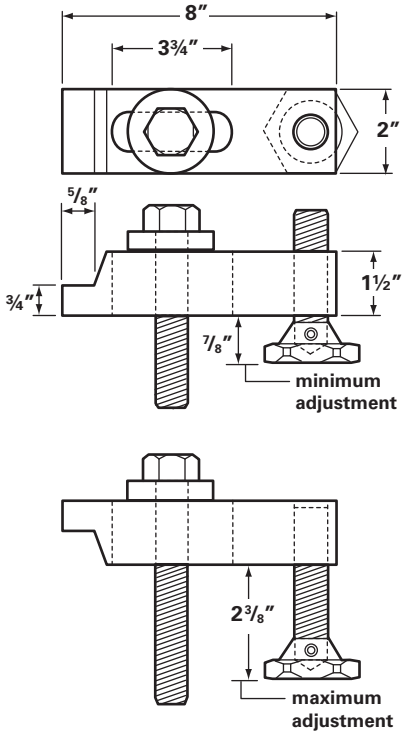
Extra Heavy Duty * Items are included in kit

Part Number	Description
XHD7580*	8" Extra Heavy-Duty Open Toe Clamp Body
S7540	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545*	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757*	No-Turn Washer for ¾–10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L.
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
HX6	Case Hardened Hex Nut for T-Slot Bolts -1¼" across flats
TAC7580A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

8" Machined Closed Toe Clamp - ¾ – 10 Thread

MACHINED MOLD CLAMPS

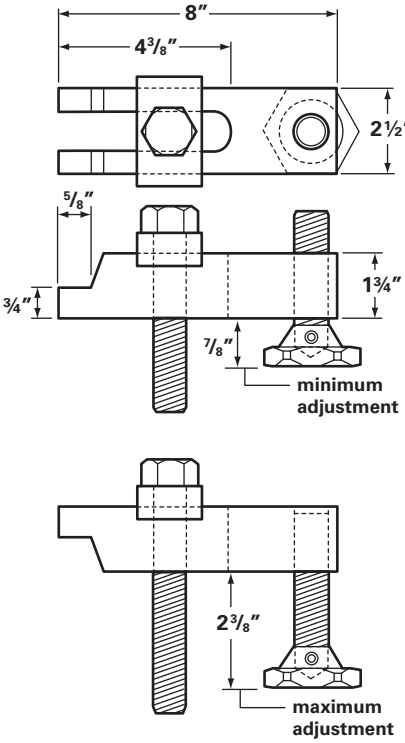
* Items are included in kit



Extra Heavy Duty	
Part Number	**Description**
XHD7581*	8" Extra Heavy-Duty Closed Toe Clamp Body
S7540	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545*	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756*	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757	No-Turn Washer for ¾–10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L.
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
HX6	Case Hardened Hex Nut for T-Slot Bolts -1¼" across flats
TAC7581A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

8" Machined Open Toe Clamp - 1 – 8 Thread

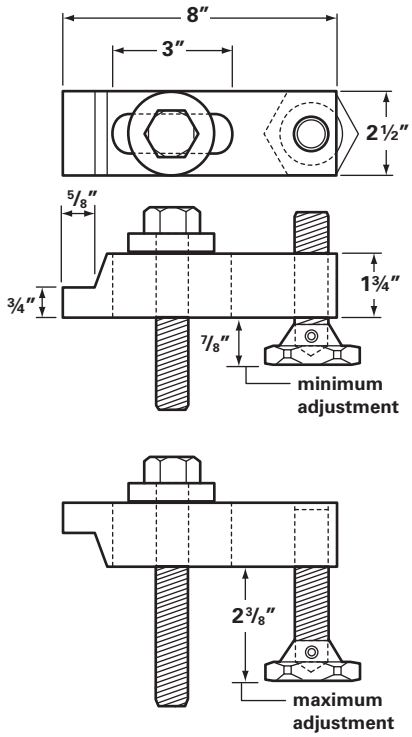


Extra Heavy Duty	* Items are included in kit
Part Number	**Description**
XHD1008*	8" Extra Heavy-Duty Open Toe Clamp Body
S1045	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
S1050	Grade 5, Hex Head Clamping Screw, 5" Under Hex
S1055*	Grade 5, Hex Head Clamping Screw, 5½" Under Hex
H100	Hex Head Adjusting Screw 1–8 thread size
RW100	Round Mold Washer, 1" I.D., 2" O.D., 5/16" Thickness
RW1006	Extra Large Round Mold Washer, 1" I.D., 2½" O.D., ⅝" Thickness
SW1007*	No-Turn Washer for 1–8 Thread, 3" Length
H1005*	Extra Large Adjusting Screw - 3½" O.A.L.
TB1060	High-Strength T-Slot Bolt, 6" Length
N100	Heavy-Duty Hex Nut for T-Slot Bolt
TAC1008A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

Machined Mold Clamps

8" Machined Closed Toe Clamp - 1 – 8 Thread

MACHINED MOLD CLAMPS

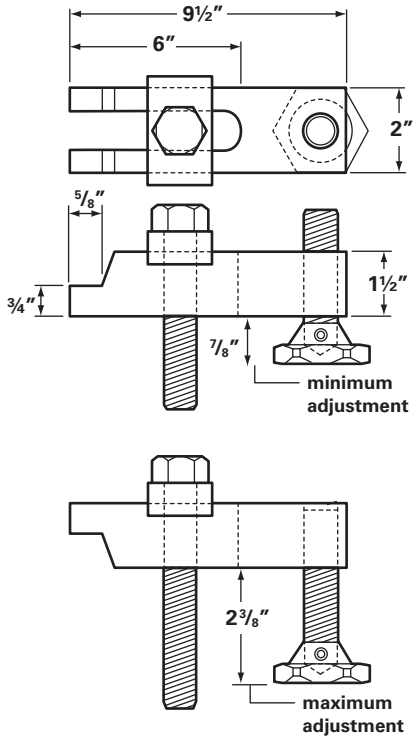


* Items are included in kit

Extra Heavy Duty	
Part Number	**Description**
XHD1009*	8" Extra Heavy-Duty Closed Toe Clamp Body
S1045	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
S1050	Grade 5, Hex Head Clamping Screw, 5" Under Hex
S1055*	Grade 5, Hex Head Clamping Screw, 5½" Under Hex
H100	Hex Head Adjusting Screw 1–8 thread size
RW100	Round Mold Washer, 1" I.D., 2" O.D., 5/16" Thickness
RW1006*	Extra Large Round Mold Washer, 1" I.D., 2½" O.D., ⅝" Thickness
SW1007	No-Turn Washer for 1–8 Thread, 3" Length
H1005*	Extra Large Adjusting Screw - 3½" O.A.L.
TB1060	High-Strength T-Slot Bolt, 6" Length
N100	Heavy-Duty Hex Nut for T-Slot Bolt
TAC1009A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

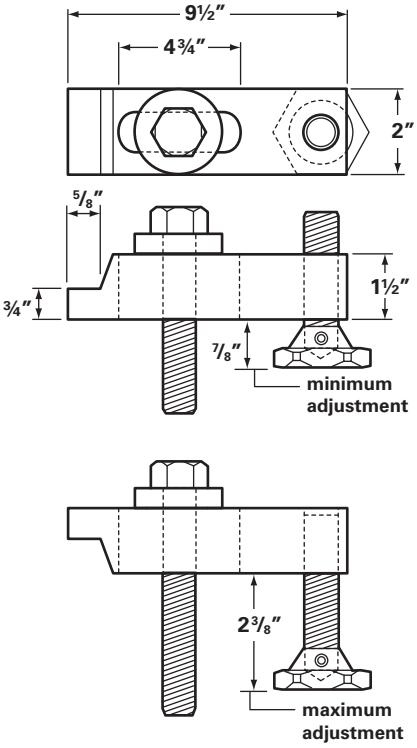
9½" Machined Open Toe Clamp - ¾ – 10 Thread



Extra Heavy Duty	* Items are included in kit
Part Number	**Description**
XHD7595*	9½" Extra Heavy-Duty Open Toe Clamp Body
S7540	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545*	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757*	No-Turn Washer for ¾–10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L.
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
HX6	Case Hardened Hex Nut for T-Slot Bolts -1¼" across flats
TAC7595A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

9½" Machined Closed Toe Clamp - ¾ – 10 Thread

MACHINED MOLD CLAMPS

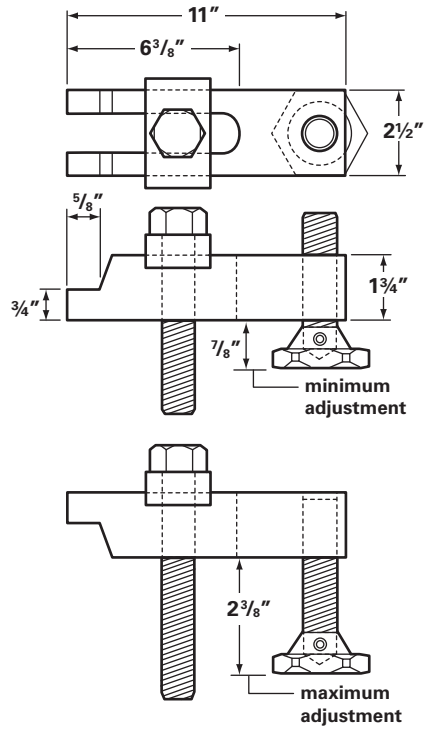


* Items are included in kit

Extra Heavy Duty	
Part Number	**Description**
XHD7596*	9½" Extra Heavy-Duty Closed Toe Clamp Body
S7540	Grade 5, Hex Head Clamping Screw, 4" Under Hex
S7545*	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
H75	Hex Head Adjusting Screw
RW75	Round Mold Washer, ¾" I.D., 1½" O.D., ¼" Thickness
RW756*	Extra Large Round Mold Washer, ¾" I.D., 2" O.D., ½" Thickness
SW757	No-Turn Washer for ¾–10 Thread, 2½" Length
H755*	Extra Large Adjusting Screw - 3½" O.A.L.
TB7550	High-Strength T-Slot Bolt, 5" Length
N75	Heavy-Duty Hex Nut for T-Slot Bolt
HX6	Case Hardened Hex Nut for T-Slot Bolts -1¼" across flats
TAC7596A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

10" Machined Open Toe Clamp - 1 – 8 Thread



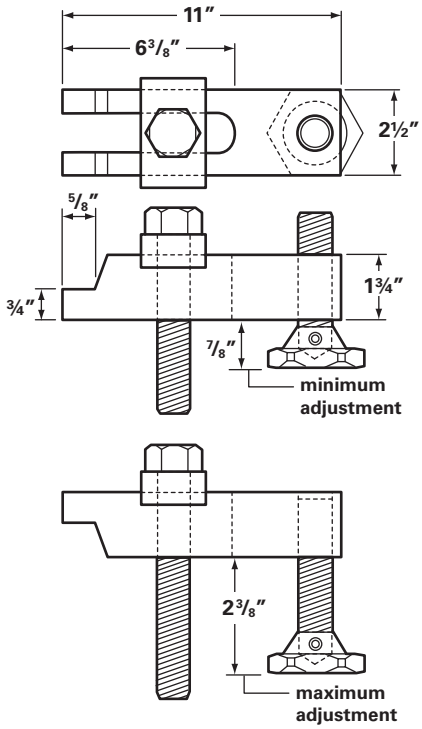
* Items are included in kit

Part Number	Description
HD110*	10" Heavy-Duty Open Toe Clamp Body
S1045	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
S1050*	Grade 5, Hex Head Clamping Screw, 5" Under Hex
S1055	Grade 5, Hex Head Clamping Screw, 5½" Under Hex
H100	Hex Head Adjusting Screw 1–8 thread size
RW100	Round Mold Washer, 1" I.D., 2" O.D., 5/16" Thickness
RW1006	Extra Large Round Mold Washer, 1" I.D., 2½" O.D., ⅝" Thickness
SW1007*	No-Turn Washer for 1–8 Thread, 3" Length
H1005*	Extra Large Adjusting Screw - 3½" O.A.L.
TB1060	High-Strength T-Slot Bolt, 6" Length
N100	Heavy-Duty Hex Nut for T-Slot Bolt
TAC110A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

Machined Mold Clamps

11" Machined Open Toe Clamp -1 – 8 Thread

MACHINED MOLD CLAMPS

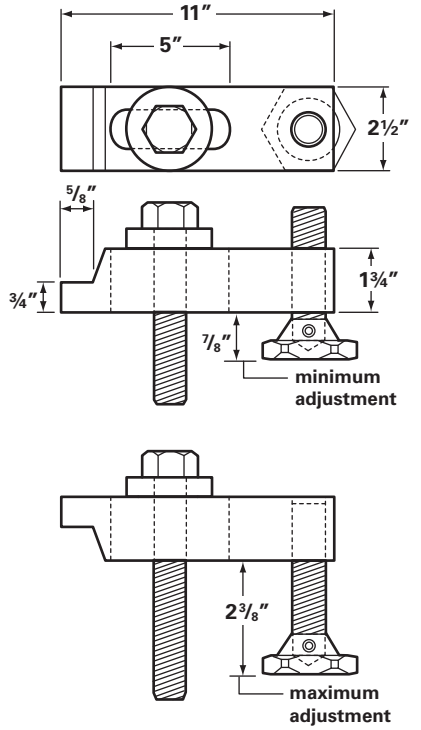


* Items are included in kit

Extra Heavy Duty	
Part Number	**Description**
XHD1011*	11" Extra Heavy-Duty Open Toe Clamp Body
S1045	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
S1050	Grade 5, Hex Head Clamping Screw, 5" Under Hex
S1055*	Grade 5, Hex Head Clamping Screw, 5½" Under Hex
H100	Hex Head Adjusting Screw 1–8 thread size
RW100	Round Mold Washer, 1" I.D., 2" O.D., 5/16" Thickness
RW1006	Extra Large Round Mold Washer, 1" I.D., 2½" O.D., ⅝" Thickness
SW1007*	No-Turn Washer for 1–8 Thread, 3" Length
H1005*	Extra Large Adjusting Screw - 3½" O.A.L.
TB1060	High-Strength T-Slot Bolt, 6" Length
N100	Heavy-Duty Hex Nut for T-Slot Bolt
TAC1011A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

TopsAll® Machined Mold Clamps

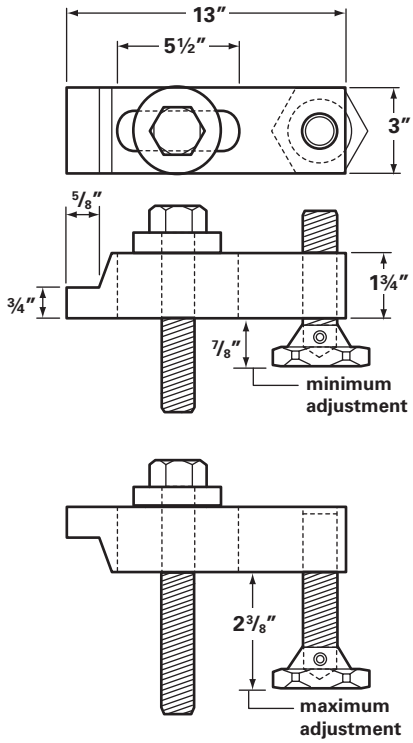
11" Machined Closed Toe Clamp -1 – 8 Thread



Extra Heavy Duty	* Items are included in kit
Part Number	**Description**
XHD1012*	11" Extra Heavy-Duty Closed Toe Clamp Body
S1045	Grade 5, Hex Head Clamping Screw, 4½" Under Hex
S1050	Grade 5, Hex Head Clamping Screw, 5" Under Hex
S1055*	Grade 5, Hex Head Clamping Screw, 5½" Under Hex
H100	Hex Head Adjusting Screw 1–8 thread size
RW100	Round Mold Washer, 1" I.D., 2" O.D., 5/16" Thickness
RW1006*	Extra Large Round Mold Washer, 1" I.D., 2½" O.D., ⅝" Thickness
SW1007	No-Turn Washer for 1–8 Thread, 3" Length
H1005*	Extra Large Adjusting Screw - 3½" O.A.L.
TB1060	High-Strength T-Slot Bolt, 6" Length
N100	Heavy-Duty Hex Nut for T-Slot Bolt
TAC1012A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

13" Machined Closed Toe Clamp -1¼ – 7 Thread

MACHINED MOLD CLAMPS

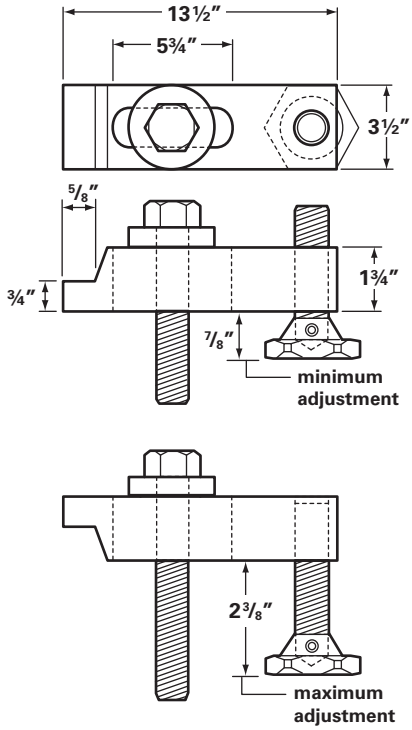


Extra Heavy Duty	
Part Number	**Description**
XHD1250	13" Extra Heavy-Duty Closed Toe Clamp Body
S1256	Grade 5, Hex Head Clamping Screw, 6" Under Hex
RW1256	Extra Large Round Mold Washer, 1¼" I.D., 3" O.D., ⅝" Thickness
H1505	Extra Large Adjusting Screw - 5⅝" O.A.L.
TAC1250A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

B

TopsAll® Machined Mold Clamps

13½" Machined Closed Toe Clamp - 1½ – 6 Thread



Extra Heavy Duty	
Part Number	**Description**
XHD1500	13½" Extra Heavy-Duty Closed Toe Clamp Body
S1506	Grade 5, Hex Head Clamping Screw, 6" Under Hex
RW1506	Extra Large Round Mold Washer, 1½" I.D., 3½" O.D., ⅝" Thickness
H1505	Extra Large Adjusting Screw - 5⅝" O.A.L.
TAC1500A	Complete Assembly - Mold Clamp, Adjusting Screw, Mold Washer & Clamping Screw

Socket Head Cap Screws- Inch

Up to 12" Long

High-grade alloy steel, heat treated to 38-45 HRC. Tensile strength: 180,000 psi minimum.

SOCKET HEAD CAP SCREWS

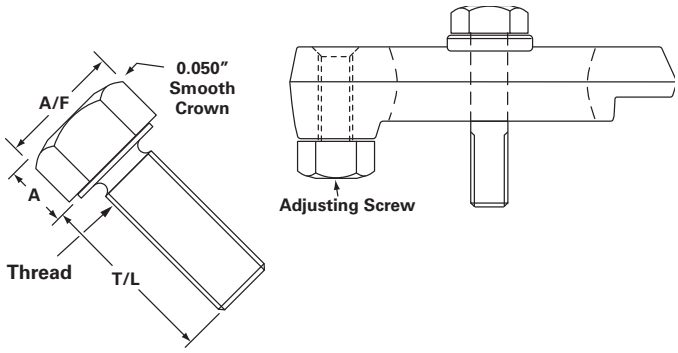
D = DIAMETER OF SCREWS												
		NO. 6	NO. 8	NO. 10	¼	⅝	⅜	½	⅝	¾	1	
DECIMAL EQUIVALENT		.138	.164	.190	.250	.3125	.375	.500	.625	.750	1.000	DECIMAL EQUIVALENT
THREADS PER INCH NATIONAL COARSE		32	32	24	20	18	16	13	11	10	8	THREADS PER INCH NATIONAL COARSE
L = LENGTH UNDER THE HEAD	¼	●	●									¼
	⅜	●	●	●	●	●						⅜
	½	●	●	●	●	●	●	●				½
	⅝	●	●	●	●	●	●	●				⅝
	¾	●	●	●	●	●	●	●				¾
	⅞	●	●	●	●	●	●	●				⅞
	1	●	●	●	●	●	●	●	●			1
	1¼		●	●	●	●	●	●	●			1¼
	1½		●	●	●	●	●	●	●			1½
	1¾			●	●	●	●	●	●			1¾
	2			●	●	●	●	●	●	●	●	2
	2¼				●	●	●	●	●	●		2¼
	2½				●	●	●	●	●	●	●	2½
	2¾				●	●	●	●	●	●		2¾
	3				●	●	●	●	●	●	●	3
	3¼					●	●	●	●	●		3¼
	3½					●	●	●	●	●	●	3½
	4						●	●	●	●	●	4
	4½						●	●	●	●		4½
	5						●	●	●	●	●	5
	5¼							●				5¼
	5½							●	●	●	●	5½
	5¾							●				5¾
	6						●	●	●	●	●	6
	6½							●	●	●	●	6½
	7							●	●	●	●	7
	7½							●	●			7½
	8							●	●	●	●	8
	9							●				9
	10							●	●	●		10
	12							●	●	●		12
MAX HEAD DIAMETER		.226	.270	5⁄16	⅜	15⁄32	9⁄16	¾	15⁄16	1⅛	1½	MAX HEAD DIAMETER
MAX HEAD HEIGHT		.138	.164	.190	¼	5⁄16	⅜	½	⅝	¾	1	MAX HEAD HEIGHT
SIZE OF HEX HOLE		7⁄64	9⁄64	5⁄32	3⁄16	¼	5⁄16	⅜	½	⅝	¾	SIZE OF HEX HOLE

● = in stock

HOW to BUILD AN ITEM NUMBER: Diameter + Length + CS (Cap Screw)

Examples:

» ¼" diameter x 2-¾" long Cap Screw = 14234CS » 1" diameter x 2" long Cap Screw = 12CS » ½" diameter x 10" long Cap Screw = 1210CS



ADJUSTING SCREWS

For Use with Adjustable Mold Clamps

Use adjusting screw, if required, to ensure that the clamp is parallel to the platen for maximum strength.

For use with all mold clamps except model AC0. Smooth-crowned head permits easy adjustment of clamp to meet any mold flange height between 15⁄32″ and 2″. Hardened with black oxide finish.

	MCASO	MCAS1	MCAS2	MCAS3
A/F	1″	1¼″	1¼″	1⅝″
A	⅜″	½″	½″	⅝″
Thread	½″–13	¾″–10	¾″–10	1″–8
T/L	1½″	1½″	2″	2″

Adjusting Screws

Thread Size	Length under Head	Across Flats	Use with Clamp	Part Number
½″-13	1½″	1″	AC0FC	**MCAS0**
¾″-10	1½″	1¼″	AC1, 2, 3, 4, 5	**MCAS1**
¾″-10	2″	1¼″	AC9	**MCAS2**
1″-8	2″	1⅝″	AC10, 12, 13	**MCAS3**

EXTRA LARGE Adjusting Screw Assemblies

Thread Size	Hex Size	Swivel Base Height	Overall Height	Part Number
⅝″-11	1¾″	⅞″	3″	**H585**
¾″-10	2″	⅞″	3½″	**H755**
1″-8	2½″	1 5⁄16″	3½″	**H1005**
1½″-6	3″	1⅝″	5⅝″	**H1505**

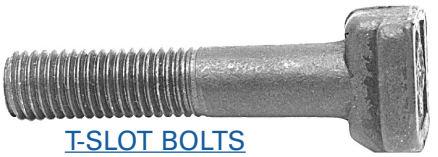
Hex Head Adjusting Screw

Thread Size	Clamp Screw Dia.	Head Thickness	Height Above Head	Part Number
⅝″-11	⅝″	7⁄16″	2½″	**H58**
¾″-10	¾″	½″	2½″	**H75**
1″-8	1″	⅝″	2½″	**H100**

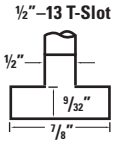
T-Slot Bolts

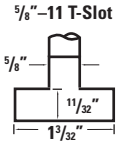
Cannot twist or jam in slots. Full smooth cut threads.

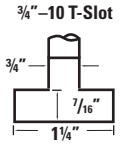
Standard Hot Forged T-Slot Bolts; C-1045 Steel, Class 3 N.C.

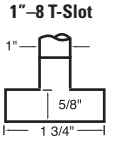


T-SLOT BOLTS









OAL Length	½–13 Thd. Part No.	⅝–11 Thd. Part No.	¾–10 Thd. Part No.	1"–8 Thd. Part No.
2″	**TS42**	**TS52**	**TS62**	
2½″	**TS42 ½**	**TS52 ½**	**TS62 ½**	
3″	**TS43**	**TS53**	**TS63**	**TS83**
3½″	**TS43 ½**	**TS53 ½**	**TS63 ½**	
4″	**TS44**	**TS54**	**TS64**	**TS84**
4½″	**TS44 ½**	**TS54 ½**	**TS64 ½**	
5″	**TS45**	**TS55**	**TS65**	**TS85**
5½″	**TS45 ½**	**TS55 ½**	**TS65 ½**	
6″	**TS46**	**TS56**	**TS66**	**TS86**
7″	**TS47**	**TS57**	**TS67**	**TS87**
8″	**TS48**	**TS58**	**TS68**	**TS88**
9″	**TS49**	**TS59**	**TS69**	**TS89**
10″	**TS410**	**TS510**	**TS610**	**TS810**
12″	**TS412**	**TS512**	**TS612**	**TS812**
14″	**TS414**	**TS514**	**TS614**	**TS814**
Head Thickness	5/16″	13/32″	17/32″	11/16″
Head Size	7/8″ square	1⅛″ square	1 5/16″ square	1 11/16″ square

Case Hardened Hex Nuts

For T-Slot Bolts

CASE HARDENED HEX NUTS

Extra thick, machined from 12L14 bar stock, case hardened washer bearing surface.

Thread	Across Flats	Thickness	Part Number
½"–13	7/8″	5/8″	H × 4
⅝"–11	1 1/16″	¾″	H × 5
¾"–10	1¼″	7/8″	H × 6
7/8"–9	1 7/16″	1⅛″	H × 7
1"–8	1⅝″	1¼″	H × 8

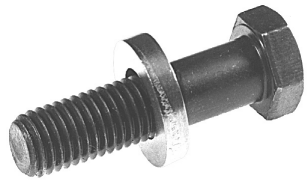
U.S. Threads

Part Number	Thread Size	Length Under Head
HHB5025	½–13	2½″
HHB5030	½–13	3″
HHB5035	½–13	3½″
HHB6225	⅝–11	2½″
HHB6230	⅝–11	3″
HHB6235	⅝–11	3½″
HHB6240	⅝–11	4″
HHB6245	⅝–11	4½″
HHB6250	⅝–11	5″
HHB7530	¾–10	3″
HHB7535	¾–10	3½″
HHB7540	¾–10	4″
HHB7545	¾–10	4½″
HHB7550	¾–10	5″
HHB1030	1–8	3″
HHB1035	1–8	3½″
HHB1040	1–8	4″
HHB1045	1–8	4½″
HHB1050	1–8	5″
HHB1060	1–8	6″
HHB1240	1¼–7	4″
HHB1250	1¼–7	5″
HHB1260	1¼–7	6″
HHB1270	1¼–7	7″

Metric Threads

Part Number	Thread Size	Length (Under Head)
MHB1265	12 × 1.75	65
MHB1275	12 × 1.75	75
MHB1290	12 × 1.75	90
MHB1675	16 × 2	75
MHB1690	16 × 2	90
MHB16100	16 × 2	100
MHB16110	16 × 2	110
MHB16120	16 × 2	120
MHB16130	16 × 2	130
MHB2080	20 × 2.5	80
MHB2090	20 × 2.5	90
MHB20100	20 × 2.5	100
MHB20110	20 × 2.5	110
MHB20120	20 × 2.5	120
MHB20130	20 × 2.5	130
MHB24100	24 × 3	100
MHB24110	24 × 3	110
MHB24120	24 × 3	120
MHB24130	24 × 3	130
MHB24140	24 × 3	140
MHB24150	24 × 3	150
MHB24160	24 × 3	160

GRADE 5 BOLTS



Mold Clamp Washers

Economy

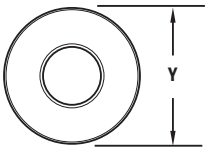
MOLD CLAMP WASHERS

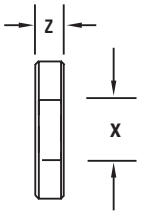
Part Number	I.D.	O.D.	Thickness
MCW1M	9/16″	1 1/16″	¼″
MCW2M	21/32″	1 5/16″	¼″
MCW3M	25/32″	1½″	¼″
MCW4M	1 1/32″	1¾″	¼″

Thick-Stamped Washers

Thick-Stamped, Steel Washers with soft core won't crack. Large O.D. provides excellent bearing surface. An excellent washer for mold clamps and other shop uses.

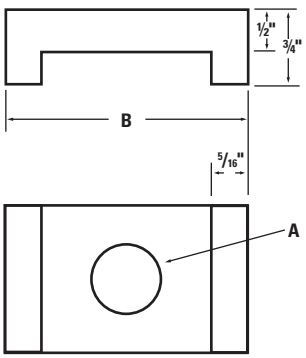
Bolt Size	Dimensions			Use with Clamps	Part Number
	X	Y	Z		
½"–13 (12mm)	9/16"	1⅛"	¼"	AC0	W1
⅝"–11 (16mm)	21/32"	1¼"	¼"	AC1 & 3	W2
¾"–10 (20mm)	25/32"	1-¾"	¼"	AC2 & 4	W3
	29/32"	1¾"	¼"		W6
1"–8 (24mm)	1-1/32"	2"	5/16"	AC5 & 9	W4
1¼"–7 (30mm)	1¼"	3"	⅝"	AC12	RW1256





THICK STAMPED WASHERS

Machined No-Turn Washers



MACHINED NO-TURN WASHERS

Part Number	"A" Screw Dia.	Length	Thickness Above Clamp	Clamp Width
SW127	½"	2¼"	½"	1¾"
SW587	⅝"	2¼"	½"	1¾"
SW757	¾"	2½"	½"	2"
SW1007	1"	3"	⅝"	2½"

Replacement granulator knives manufactured to precise tolerance to replace original equipment. Super Alloy: Premium grade D2 tool steel formulation provides much longer life and is better suited to high-usage cycles and tough materials. Greatly increases the time between sharpening. Ideal for heavy usage central grinding.

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Allsteel							
6x6	6.000	1.375	0.687	F	Hook Fly 3 Holes	2–3	**A6HF3**
6x6	6.000	1.937	0.500	B	Bed 2 Tapped Dowels	2	**A6B3**
6x8	8.000	2.000	0.425	F	Fly 4 Holes	3	**A8F3**
6x8	8.000	1.500	0.430	B	Bed 4 Open Slots	1–2	**A8B3**
6x8	8.000	1.312	0.468	F	Hook Fly 4 Holes	3	**A8HF3**
6x8	8.000	1.815	0.500	B	Bed 2 Tapped Dowels	2	**A8BA3**
10x22 (can use with A13F)	8.490	2.840	0.625	F	Reverse Bevel 4 Holes	1	**A9FB3**
10x17, 10x22, 12x17, 14x22, 10x9, 14x17, C124 (can use with A13FC)	8.500	2.850	0.625	F	Keen Edge 4 Holes	2	**A9F3**
10x17, 10x22, 14x22, 10x9, 14x17, 12x17 (can use with A13C)	8.500	2.593	0.625	B	No Holes Double Cutting Edge With Groove	2	**A8BD3**
8x10, 9x11	10.000	2.875	0.625	F	Reverse Bevel 5 Holes	2	**A10F3**
8x10, 9x11	10.000	1.875	0.500	B	5 Slots	2	**A10B3**
8x10, 9x11	9.990	1.875	0.500	B	5 Open Slots	1	**A10BB3**
12x13, 1236, 1337 (can use with A24F)	11.500	3.312	0.562	F	Reverse Bevel 5 Holes Counterbored	1	**A12FC3**
1236, 1337 (can use with A24BB)	11.500	2.375	0.562	B	5 Slots	1	**A11BA3**
	12.000	4.187	0.580	F	4 Holes Counterbored	1	**A12FD3**
11x13, 10x12 (new style)	11.740	3.312	0.625	F	Reverse Bevel 5 Holes Counterbored	2	**A12F3**
10x12, 11x13 (new style)	11.750	2.375	0.625	B	5 Open Slots	2	**A11B3**
10x12	11.500	3.312	0.625	F		2	**A11F3**
10x12 (old)	11.535	2.375	0.591	B	5 Slots	2	**A12B3**
10x13	11.500	2.500	0.562	F	Radial Rotor 4 Holes	1	**A12FE3**
2449, 2436	12.000	3.445	0.875	B	4 Slots	1	**A11BB3**
16x39, 14x22, 14x26, 14x51, 10x13, 1225 (can use with A9FB)	12.750	2.843	0.625	F	Reverse Bevel 6 Holes	9	**A13F3**
16x39,14x26,14x22, 14x51	12.750	2.593	0.625	B	No Holes Double Cutting Edge	6	**A13B3**
14x26,14x22,14x26, 14x51, 10x13 (can use with A9F)	12.750	2.781	0.625	F	Keen Edge 6 Holes	1	**A13FC3**
14x26,14x22,10x13 (can use with A8BD)	12.750	2.562	0.625	B	No Holes Double Cutting Edge	6	**A13C3**
14x22	10.733	2.812	0.625	F	Reverse Bevel 2 Counterbored Holes	3	**A11FB3**

Granulator Knives

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Allsteel (cont.)							
12×14, 1337, 1236 (can use with A11BA)	23.875	2.375	0.562	B	9 Slots	2	**A24BB3**
16×39, 10×13	12.750	2.875	0.625	B	6 Slots	1	**A13BA3**
10×18, 11×19, 12×18	18.000	3.312	0.580	F	Reverse Bevel 7 Holes Counterbored	2	**A18F3**
10×18, 11×19, 12×18	18.000	2.375	0.625	B	7 Slots	2	**A18B3**
7×18, 9×36	18.000	1.875	0.500	F	Radial Rotor 6 Holes	5	**A19F3**
7×18	18.000	1.875	0.937	F	Hook Fly 6 Holes Recessed To ½	5	**A19HF3**
7×18, 9×36	18.000	2.812	0.750	B		2	**A36B3**
12×36	18.000	2.875	0.875	F	Radial Rotor 9 Slots	10	**A17F3**
12×36	18.000	2.875	1.250	F	Hook Fly 9 Holes	10	**A18HF3**
12×36	18.000	3.875	1.125	B	6 Slots	4	**A18BA3**
9×36	17.990	2.875	0.500	F	Radial Rotor 6 Holes	5	**A36F3**
	18.000	3.500	0.875	B	6 Slots	1	**A18BB3**
9×36	18.000	2.361	1.125	F	Hook Fly 6 Holes	1	**A36HF3**
24×36	18.000	3.312	0.875	B	6 Slots	1	**A17BA3**
24×36	18.000	3.875	0.687	F	Keen Edge 6 Holes Countersunk	1	**A17FA3**
24×36	17.970	3.875	0.687	F	Keen Edge 6 Holes Counterbored	1	**A18FA3**
8×20	20.000	2.375	1.125	F	Hook Fly 7 Holes (recessed to ⅝")	5	**A20F3**
8×20	20.000	3.375	0.875	B	7 Slots	2	**A20B3**
15×21	20.562	3.215	0.562	F	7 Holes	3	**A20FA3**
15×21	21.208	2.750	0.531	B	7 Slots	2	**A21B3**
1224, HOG	24.000	2.875	1.375	F	Hook Fly 9 Holes	1	**A24HFA3**
12×24, 1236, 1337, 12×48, 13×49 (can use with A12FC)	23.812	3.312	0.562	F	Reverse Bevel Counter-bored same as A23F except angle location	1	**A24F3**
12×24	23.985	2.750	1.250	F	Hook Fly 9 Holes	5	**A24HFB3**
12×24	24.000	3.875	1.125	B	Open Slots	2	**A24BA3**
12×24	23.990	2.875	1.370	F	Hog Hook Fly 9 Holes	1	**A24HFC3**
9×24	24.000	2.375	0.625	F	Radial Rotor 9 Holes	5	**A25F3**
9×24, 13×25	24.000	2.375	1.125	F	Hook Fly 9 Holes (Recessed to ⅝")	5	**A25HF3**
9×24, 13×25	24.000	3.375	0.875	B	9 Slots	2	**A23B3**
13×25	24.500	2.735	0.625	F	High Shear 12 Holes	1	**A24FB3**
13×49, 13×25, 12×48	23.812	3.312	0.562	F	9 Holes same as A24F except angle location	8	**A23F3**
13×49, 12×48	23.875	2.375	0.562	B	9 Slots	4	**A23BC3**
	23.960	3.875	1.125	B	9 Slots	1	**A23BD3**
1422	10.750	2.500	1.125	B	3 Slots Single Bevel	2	**A11BC3**

GRANULATOR KNIVES

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Allsteel (cont.)							
1422	10.733	2.865	0.625	F	2 Counterbored Holes Keen Edge	1	**A11FC3**
30×49	23.990	2.875	0.875	F	Radial Rotor 9 Holes	5	**A24FA3**
30×49	11.990	3.440	0.875	B	4 Slots	8	**A12BE3**
	23.875	2.750	0.562	B	9 Slots	1	**A24BC3**
30×49	23.990	2.875	0.875	F	9 Holes Keen Edge	1	**A24FC3**
14×26	12.250	2.850	0.625	F	Right Hand 6 Holes Keen Edge	1	**A13FR3**
14×26	12.250	2.850	0.625	F	Left Hand 6 Holes Keen Edge	1	**A13FL3**
6P6	6.000	1.750	0.313	B	5 Open Slots Single Bevel	1	**A6BA3**
Amacoil							
8×8, GUO808, GU88	7.625	2.375	0.375	F	Keen Edge 5 Holes	2–3	**AM7F3**
8×8, GUO808, GU88, POLYMER A88	7.875	1.750	0.375	B	3 Slots	2	**AM8B3**
AG-88, GU808, GUO808	7.785	2.375	0.375	F	High Shear 5 Holes	3	**AM8F3**
AG-1010	9.625	2.625	0.500	F	Reverse Bevel 6 slots	1	**AM10FA3**
	9.973	2.750	0.500	F	6 Holes High Shear	1	**AM10FB3**
AG-1010	9.610	2.750	0.500	F	Reverse Bevel 6 Holes	2	**AM9F3**
AG-1010	9.610	2.750	0.500	F	6 Holes Keen edge	1	**AM10F3**
HMG1010, 1010-A	9.625	3.500	0.500	F	Keen Edge 2 Slots	3	**AM9FA3**
AG/HMG1010, 1010-A	9.875	2.000	0.500	B	4 Slots	2	**AM10B3**
	9.984	2.750	0.500	F	High Shear 6 Slots	1	**AM9FC3**
GU1421	11.750	3.880	0.625	F	High Shear 4 Holes	8	**AM12FB3**
GU1421	20.500	3.875	0.625	F	High Shear 5 Holes	5	**AM20F3**
GU421	10.437	2.505	0.625	B	4 Slots	4	**AM10BA3**
GU1427, 1627	13.312	3.875	0.625	F	High Shear 3 Holes	10	**AM13F3**
GU1427, 1627	14.625	3.875	0.625	F	High Shear 5 Holes	8	**AM14F3**
GU1427, 1627	13.437	2.500	0.625	B	5 Slots	2–4	**AM14B3**
GU1415	14.865	2.505	0.625	B	5 Slots	2	**AM15B3**
GU1415	14.062	4.500	0.593	F	High Shear 4 Holes	1	**AM14FB3**
GK1000	20.625	3.750	0.937	F	Keen Edge 4 Slots	10	**AM21F3**
	20.615	3.750	0.937	F	4 Slots 5 Tapped Holes Keen Edge	1	**AM21FA3**
	14.625	3.875	0.625	F	5 Open Slots	1	**AM15F3**
HMG2652	25.250	5.077	1.000	F		10	**AM25F3**
HMG2652, 2652	25.938	2.995	1.000	B	9 Slots Single Bevel 2 Tapped Dowels	4	**AM26B3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Ball & Jewel							
	11.500	5.375	0.875	F	Keen Edge 2 Holes Counterbored	1	**B11F3**
M68, M88, M75, HAF685SC, DK88, M100, 4219M	7.990	2.750	0.500	F	Keen Edge 2 Holes Countersunk	3	**B8FCS3**
M68, M88, M75, HAF685SC, DK88, M100, 4219M	8.000	2.750	0.500	F	Keen Edge 2 Holes Counterbored	3	**B8FCB3**
HAF685C, M68, M75, M88, DK88, M100, 4219M	8.000	2.000	0.500	B	3 Slots	2	**B8B3**
301-3 STD. IDEAL	9.125	2.125	0.500	F	2 Holes Counterbored	3	**B9F3**
301-3 STD. IDEAL	9.562	1.625	0.375	B	4 slots	4	**B9B3**
MD810, M810, M110	10.000	2.750	0.500	F	Keen Edge 2 Holes Counterbored	3	**B10F3**
MD810	10.000	2.000	0.500	B	3 Slots	2	**B10B3**
	9.990	2.750	0.500	F	Reverse Bevel	3	**B10FCS3**
MB150	11.990	3.480	0.750	F	4 Holes Counterbored	1	**B12FF3**
MB150	12.000	2.750	0.750	B	4 Slots Counterbored	1	**B12BB3**
MD812, IAF812P, HAF812SC, HAF812P, DK812, M200	12.000	2.750	0.625	F	Keen Edge 2 Holes Countersunk	3	**B12FCS3**
MD812, IAF812P, HAF812SC, HAF812P, M200, DK812	12.000	2.750	0.625	F	Keen Edge 2 Holes Counterbored	3	**B12FCB3**
MD812, M200, IAF812D, M812, HAF812SC, LB1212, DK812, DK1212	12.000	2.000	0.625	B	4 Slots	2	**B12B3**
MD1212, BP1212S, MA1212X, 1212SX	12.000	2.875	0.750	F	Keen Edge 2 Holes Counterbored	3	**B12FA3**
MD1212, BP1212S, 1212SX, MB1212X	12.000	2.062	0.750	B	4 Slots	2	**B12BA3**
12", HAF812SCSX, CG812SCX	11.956	2.125	0.500	F	Keen Edge 3 Holes Counterbored Slanted Right	3	**B12FD3**
12", HAF812SCSX, CG812SCX	11.875	2.250	0.500	B	3 Slots Double Edge	2	**B12BC3**
	12.031	2.500	0.625	F	Keen Edge 2 Holes Counterbored	1	**B12FE3**
1014	14.000	2.875	0.750	F	Keen Edge 3 Holes Counterbored	3	**B14F3**
1014	14.000	2.875	0.750	B	4 Slots 2 Tapped Dowels	2	**B14B3**
MD1216, CG1216SCSX, HAF1216C	16.000	2.880	0.750	F	Keen Edge 3 Holes Counterbored	3	**B16FCB3**
M300, DK1216, M816, LB1216	16.000	2.875	0.750	F	Keen Edge 3 Holes Countersunk	3	**B16FCS3**
M816, M300, LB1216, CG1216SCX, HAF1216C, MD1216	16.000	2.062	0.750	B	5 Slots 2 Tapped Dowels	2	**B16B3**

GRANULATOR KNIVES

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Ball & Jewel (cont.)							
1216, SPL	16.062	2.750	0.625	B	No Holes 2 Tapped Dowels	2	**B16BB3**
MB520	17.125	3.312	0.750	B	8 Tapped Holes Holder	1	**B17BB3**
MB250	17.000	3.687	0.750	F		2	**B17F3**
MB250	17.000	2.750	0.750	B	4 Holes 2 Tapped Dowels	2	**B17B3**
451	19.990	3.125	0.500	F	Reverse Bevel 3 Holes	1	**B20FB3**
CG1620SX, CG1620SCSX	20.000	2.750	0.750	B	6 Slots 2 Tapped Dowels Double Cutting Edge	2	**B20BH3**
CG1620SX, CG1620SCSX	19.890	2.875	0.750	F	Keen Edge 4 Holes Counter-bored Slanted Left	1	**B20FL3**
CG1620SX, CG1620SCSX	19.890	2.875	0.750	F	Same as B20FL But Slanted Right	1	**B20FR3**
CG1620SX, CG1620SCSX, (Can Use B20BH)	19.935	2.750	0.750	B	6 Slots 4 Tapped Dowels Double Cutting Edge	2	**B19B3**
MD1640	20.000	4.000	0.875	B	2 Tapped Dowels	4	**B20BJ3**
M400, M820, MD1620, MD1640	20.000	2.625	0.750	F	Keen Edge 3 Holes Countersunk	3	**B20FE3**
M400, M820, MD1620	20.062	1.875	0.750	B	6 Slots	2	**B20BD3**
	21.000	3.625	0.875	B	8 Slots 2 Tapped Dowels	1	**B21BC3**
NO. ½	20.062	3.250	0.500	F	Keen Edge 3 Holes	4	**B21F3**
NO. ½	20.375	2.375	0.437	B	2 Tapped Dowels	6	**B21BD3**
	19.990	3.500	0.875	B	Keen Edge 6 Slots	1	**B19BA3**
MD1220, MD1620	20.000	2.875	0.750	F	Keen Edge 3 Holes Counterbored	3	**B20F3**
MD1620, MD1220	20.052	2.125	0.750	B	6 Slots 2 Tapped Dowels	2	**B20BA3**
20", 1040, GK10022	20.062	2.875	0.750	F	Keen Edge 4 Holes Counterbored	3	**B20FA3**
	21.000	4.250	0.875	B	8 Slots 2 Tapped Dowels	4	**B21BE3**
NO.1	23.500	3.375	0.560	F	Reversed Bevel 3 Holes Counterbored	1	**B23F3**
NO.1	23.875	2.507	0.531	B	2 Tapped Dowels	6	**B23B3**
AS-24 STEEL	23.990	3.500	0.750	F	Keen Edge 9 Holes	5	**B24F3**
STEELMSTR 24	24.000	4.000	0.875	B	9 Slots 2 Tapped Dowels	2	**B24B3**
M500	23.990	2.875	0.750	F	Keen Edge 3 Holes Countersunk	3	**B24FD3**
	24.052	2.875	0.750	F	Keen Edge 3 Holes Countersunk	1	**B24FF3**
M500	24.062	2.000	0.750	B	6 Slots 3 Tapped Dowels	2	**B24BB3**
M500, LT-1248-X	23.990	2.875	0.750	F	3 Holes Counterbored	1	**B24FG3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Ball & Jewel (cont.)							
NO.1.500, 5/SET	25.250	3.750	0.562	F	Reverse Bevel 3 Holes Counterbored	5	**B25F3**
NO.1.500	25.375	3.250	0.500	B	No Holes 2 Tapped Dowels	6	**B25BA3**
HD1652, HD1626	25.875	2.875	0.750	F	Keen Edge 7 Holes Counterbored	1	**B26FE3**
HD1626	25.875	3.500	0.750	F	10 Holes	3–10	**B26FC3**
HD1626	26.000	4.000	0.875	B	10 Slots 2 Tapped Dowels	4	**B26BD3**
MD1626, 2026, MD1260, 5KN ROTOR	25.870	2.875	0.718	F	4 Holes (Alternate B26FF)	3	**B26FA3**
MD1626, 2026, MD1260, CG2026SX	26.000	4.000	0.843	B	7 Slots 2 Tapped Dowels	2	**B26B3**
HD1626	25.875	3.500	0.750	F	10 Holes	1	**B26FB3**
HD1626	26.000	4.000	0.875	B	10 Slots 2 Tapped Dowels	1	**B26BE3**
CG2026SX, HD1626	25.865	2.875	0.750	F	4 Holes Counterbored (see B26FB)	1	**B26FF3**
	25.865	2.875	0.750	F	4 Holes Countersunk Keen Edge	1	**B26FG3**
2–28	26.740	5.250	0.875	F	3 Holes Counterbored Reverse Bevel	1	**B26FD3**
2–28	26.750	5.250	0.875	F	3 Holes Keen Edge	5	**B26F3**
2–28	26.875	4.750	0.875	B	2 Tapped Dowels	6	**B26BA3**
1632	31.875	2.875	0.750	F	Keen Edge 5 Holes Counterbored	3	**B32F3**
1632	32.000	4.000	0.875	B	5 Slots 2 Tapped Dowels	1	**B32B3**
HDB 303SX	30.000	4.000	0.875	B	8 Slots	2	**B30B3**
MD1640	19.990	2.625	0.750	F	Keen Edge 3 Holes Counterbored	3	**B20FF3**
MD1640	24.000	2.750	0.750	B	6 Slots Single Bevel	1	**B24BC3**
	23.563	3.625	0.750	F	6 Counterbored Holes Keen Edge	1	**B24FH3**
Conair							
MGK400	6.650	2.580	0.470	F	Keen Edge 2 Slots	1	**CR7F3**
MC-32	8.000	4.313	1.094	F	Reverse Bevel 2 Holes Counterbored	12	**CR8F3**
MGK400.175	8.885	2.500	0.470	F	2 Slots High Shear	1	**CR9F3**
MGK400.175	8.875	2.400	0.500	B	2 Slots	1	**CR9BA3**
9×10, H6910, W450, (9723–15901)	9.000	2.500	0.875	F	Keen Edge 2 Holes Counterbored	1	**CR9FA3**
9×10, H6910, W450	9.250	2.000	0.437	B	3 Slots	1	**CR9B3**
8×10	9.500	2.000	0.500	F	Keen Edge 3 Holes Counterbored	1	**CR10F3**
8×10	9.937	2.000	0.500	B	3 Slots	1	**CR10B3**
12×14, 12×24, 712978	12.000	2.875	1.000	F	Keen Edge 2 Holes Counterbored	3	**CR12F3**

GRANULATOR KNIVES

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Conair (cont.)							
12×14, 12×24, 712978	12.250	1.937	0.500	B	5 Holes	2	**CR12BB3**
12×14	12.250	1.937	0.500	B	5 Slots	1	**CR12BE3**
1412	12.250	2.938	0.500	B	5 Slots	1	**CR12B3**
14×20	20.000	2.875	1.000	F	Keen Edge 3 Holes Counterbored	3	**CR20F3**
14×20	20.187	1.938	0.500	B	8 Slots	2	**CR20B3**
16×24	12.052	1.937	0.500	B	2 Tapped Dowels	1	**CR12BC3**
16×24	24.021	3.500	1.125	F	4 Holes Counterbored	1	**CR24F3**
	24.021	3.500	1.125	F	Keen Edge 4 Holes Counterbored	1	**CR24FB3**
G1630	29.500	3.445	1.102	F	4 Holes Counterbored	1	**CR29F3**
G1630	30.187	3.000	0.500	B	12 Slots	1	**CR30B3**
G1630	30.187	3.000	0.500	B	12 Slots Single Bevel	1	**CR30BA3**
Cumberland							
Chopper	4.156	1.250	0.375	B	2 Holes Tapped	1	**CE4BA3**
#0	4.500	1.500	0.375	F	Radial Rotor 3 Holes	3	**CE4F3**
#0	4.500	2.125	0.500	B	3 Slots	2	**CE4B3**
24M	7.250	2.320	0.500	B	4 Slots	1	**CE7BA3**
24M	7.000	2.750	0.500	F	3 Holes Counterbored	1	**CR7FA3**
1524	24.365	3.312	0.625	B	7 Slots 2 Tapped Dowels	1	**CB24BC3**
#.500	7.500	1.500	0.375	F	Radial Rotor 4 Holes	2–3	**CE7F3**
#.500	7.500	2.750	0.625	B	4 Slots	2	**CE7B3**
184 SPL, 1010 Auger	9.938	2.750	0.500	F	Keen Edge 3 Holes Counterbored 2 Degree Angle Right Side	1	**C10FA3**
184 SPL, 1010 Auger	10.250	2.375	0.500	B	3 Slots 2 Open Slots	1	**C10BA3**
184 SPL, 1010 Auger	9.895	2.750	0.500	F	Reverse Bevel	1	**C10FB3**
184 SPL, 1010 Auger	9.895	2.750	0.500	F	(C10FA with both ends angled)	1	**C10FC3**
10	9.750	2.750	0.625	B	4 Slots	2	**C10B3**
10	9.937	2.000	0.375	F	Keen Edge 4 Holes	1	**C10F3**
185, 710, 810, 1, 190, 184	10.000	2.839	0.500	F	Keen Edge 3 Holes Counterbored	2	**CA10FB3**
810, 184, 710	9.990	2.739	0.500	F	Keen Edge 3 Holes Counterbored	1	**C10FD3**
185, 710, 810, 1, 190, 184	10.250	2.062	0.500	B	3 Slots 2 Open Holes	2	**CA10B3**
185, 710, 810, 1, 190, 184	10.000	2.750	0.500	F	Reverse Bevel 3 Counterbored Holes	2	**CA10FA3**
185, 710, 810, 1, 190, 184	10.250	2.250	0.500	B	3 Slots 2 Open Holes	2	**C11B3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Cumberland (cont.)							
185, 710, 810, 1, 190, 184	9.740	2.839	0.500	F	Keen Edge 3 Holes Counterbored	1	**CA10FC3**
185, 710, 810, 1, 190, 184	10.250	2.063	0.500	B	3 Slots 2 Open Holes	1	**CA10BA3**
#1.500, Chevron	10.500	2.125	0.500	F	Radial Rotor 5 Holes	5	**CE10F3**
#1.500, Chevron	10.500	2.531	0.625	B	5 Slots	2	**CE10B3**
812	11.875	2.375	0.437	F	Reverse Bevel 3 Holes 3 Degree Angle Right Side	1	**C12FF3**
812	11.875	2.375	0.438	F	Keen Edge 3 Holes	1	**C12FG3**
812	12.062	1.938	0.500	B	3 Slots Double Cutting Edge	1	**CA12C3**
284, 285	12.000	2.750	0.500	F	Keen Edge 4 Holes Counterbored (same as C11FA except for angle)	1	**C11F3**
284, 285	12.000	2.839	0.500	F	Keen Edge 4 Holes Counterbored (same as C11F Except 4 Degree Angle Right Shear)	1	**C11FA3**
284, 285	12.000	2.839	0.500	F	Keen Edge 4 Holes Counterbored (same as CA12FC Except Hole Size .625)	3	**C12F3**
284	12.000	2.839	0.500	F	Reverse Bevel 4 Holes Counterbored 4 Degree Right Side	1	**C12FH3**
284	12.240	2.750	0.500	B	4 Slots 2 Open Slots No Bevel	1	**C12BA3**
284	11.943	2.750	0.500	F	4 Counterbored Holes Reverse Bevel	1	**C11FB3**
284, 285, 2UC	11.943	2.750	0.500	F	Reverse Bevel 4 Holes Counterbored (same as CA12FC Except 4° Angle Right Side)	3	**C12FK3**
284, 285,1012, use for 2KN Rotor (See C12B for 3KN Rotor)	12.240	2.750	0.500	B	4 Slots 2 Open Holes Notches Centered	2	**C12BF3**
284, 285,1212, Gran 2KN use with 3KN Rotor	12.240	2.570	0.500	B	4 Slots 2 Open Holes	1	**C12B3**
284, 285, 1212	11.935	2.741	0.375	F	Reverse Bevel 4 holes 4 degrees right side	1	**C12FM3**
	11.937	2.750	0.375	F	Reverse Bevel 4 Holes 4 Degree Right Side	1	**C12FJ3**
812, 1012, 2, 290, 780	12.000	2.750	0.500	F	Reverse Bevel 5 Holes Counterbored	2	**CA12FA3**

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Cumberland (cont.)							
812, 1012, 2, 290, 780, 285	12.000	2.843	0.500	F	Keen Edge 5 Holes Counterbored	2	**CA12FB3**
812, 1012, 2, 290, 780	12.000	2.750	0.500	F	Reverse Bevel 4 Holes Counterbored (same as C12FI Except No Angle)	3	**CA12FC3**
1212, PI	12.188	2.750	0.511	F	Double Cutting Edge 4 Slots	1	**C13FA3**
812, 1012, 2, 290, 780, 6B	11.965	2.000	0.500	B	4 Slots	1	**CA12BA3**
812, 1012, 2, 290, 780	12.000	2.828	0.500	F	Keen Edge 4 Holes Counterbored (same as C12F except hole size .593	3	**CA12FD3**
	12.240	2.125	0.500	B	4 Slots 2 Open Slots notches not centered	1	**CA12BB3**
812, 1012, 2, 290, 780	12.000	2.062	0.500	F	Radial Rotor 5 Holes	3	**C12FB3**
812, 1012, 2, 285, 290, 780, (3KN), 2UC	12.250	2.125	0.500	B	4 Slots	2	**CA12B3**
78, 780	12.450	2.375	0.500	B	5 Slots	1	**C12BC3**
384, 1215	15.250	2.750	0.437	F	Keen Edge 4 Holes	1	**C16FD3**
384, 1215	15.500	2.562	0.500	B	5 Slots 2 Notches	1	**C16BD3**
484, SPL	7.968	3.281	0.500	F	Right Hand Keen Edge 2 Holes Counterbored (Hole to Back 1.406)	1	**C7FR3**
484, SPL	7.969	3.281	0.500	F	Left Hand Keen Edge 2 Holes Counterbored (Hole to Back 1.406)	1	**C7FL3**
484, SPL	7.969	3.281	0.500	F	Left Hand Keen Edge 2 Holes Counterbored (Hole to Back 1.308)	1	**C7FLA3**
484 SPL, Chevron	8.093	2.750	0.500	B	2 Slots	1	**C8BA3**
484	15.927	3.218	0.500	F	Reverse Bevel 4 Holes Counterbored Slant Right .562 H	1	**C16FE3**
484, See C15F Fly	16.250	2.750	0.500	B	5 Slots No Bevel	2	**CA16BA3**
484	15.927	3.375	0.500	F	Keen Edge 4 Holes Counterbored Slant Right .656 H	1	**C15F3**
484–3KN	15.937	3.268	0.500	F	Knive Reverse Bevel 4 Holes Counterbored	1	**C16FF3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Cumberland (cont.)							
484 Twinshear	7.947	3.250	0.500	F	Rt. Hand Reverse Bevel 2 Holes Counterbored (Angle Right)	1	**C8FR3**
484 Twinshear	7.947	3.250	0.500	F	Left Hand Reverse Bevel 2 Holes Counterbored (Angle Left)	1	**C8FL3**
816, 1016, 3	16.000	2.750	0.500	F	Reverse Bevel 6 Holes Counterbored C-C 2.750, C-B 1.125	2	**C16FA3**
816, 1016, 3	16.000	2.839	0.500	F	Keen Edge 6 Holes Counterbored C-C 2.687 C-B 1.312	2	**C16F3**
816, 1016, 3	16.250	2.125	0.500	B	5 Slots	2	**C16B3**
1216	16.052	3.171	0.500	F	Keen Edge 4 Holes Counterbored	3	**C16FB3**
1216, see CA16B	16.177	2.500	0.500	B	5 Slots 2 Open Holes	2	**C16BA3**
1216	16.250	2.500	0.500	B	5 Slots 2 Open Holes	2	**C16BB3**
1416, 4, 490, 485	16.000	3.250	0.500	F	Reverse Bevel 4 Holes Counterbored	3	**CA16FC3**
1416, 4, 490, 485, 1216	16.000	3.312	0.500	F	Keen Edge 6 Holes Counterbored C-C 2.687, C-B 1.312	2	**CA16FB3**
1416, 4, 490, 485	16.000	3.250	0.500	F	Reverse Bevel 6 Holes Counterbored C-C 2.687, C-B 1.312	2	**CA16FA3**
1416, 4, 490, 485	16.000	3.312	0.500	F	Keen Edge 4 Holes Counterbored	3	**CA16FD3**
4, 6	2.000	3.313	0.500	F	2 Holes Counterbored	32	**C2F3**
1416, 4, 490, 485, 1216	16.250	2.812	0.500	B	5 Slots 2 Open Holes Longer Slots (2.750 C-C) use C16BA	2	**CA16B3**
	16.250	2.812	0.500	B	5 Slots 2 Open Holes	2	**CA16BB3**
18	17.750	1.875	0.500	F	Radial Rotor 6 Holes	5	**CC17F3**
18	18.000	2.875	0.625	B	6 Slots 2 Tapped Dowels	2	**CC17B3**
584, Chevron, Twinshear	9.897	3.312	0.500	F	Keen Edge Right Hand 3 Holes Counterbored	3	**C10FR3**
584, Chevron, Twinshear	9.897	3.312	0.500	F	Keen Edge Left Hand 3 Holes Counterbored	3	**C10FL3**
584, Chevron	10.062	2.750	0.500	B	3 Slots	3	**CA10BB3**
584, 585	20.000	3.125	0.500	F	Reverse Bevel 7 Holes Counterbored	1	**CA20FD3**
584, 585 (R/B is CA20FH)	19.990	3.220	0.500	F	Keen Edge 5 Holes Counterbored (Angle Right)	3	**CA20FE3**
584, 585	20.250	2.750	0.500	B	With 7 Slots 3 Notches	1	**CA20BB3**

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Cumberland (cont.)							
584	20.250	2.750	0.500	B	7 Slots No Bevel	1	**CA20BA3**
584	20.000	3.220	0.375	F	5 Holes Reverse Bevel Short on Right Side	1	**CA20FF3**
584, 585	20.240	2.750	0.500	B	7 Slots No Bevel	2–3	**CA20BE3**
584, 585	20.000	3.187	0.500	F	Keen Edge 7 Holes Counterbored	1	**CA20FG3**
584, 585	20.240	2.750	0.500	B	Keen Edge 7 Slots	1	**CA20BC3**
584, 585	20.000	3.220	0.500	F	Reverse Bevel 5 Holes Counterbored Angle Rt. (same as CA20FE Keen Edge)	1	**CA20FH3**
X1000	20.000	4.291	0.750	F	Left Hand Reverse Bevel 4 Holes	3	**CA20AL3**
X1000	20.000	4.291	0.750	F	Rt. Hand Reverse Bevel 4 Holes	3	**CA20AR3**
1220, 1420, 5, 14x12	20.000	2.967	0.620	F	Reverse Bevel 7 Holes Counterbored	1	**CA20FK3**
1220, 1420, 5, 14x12	20.000	3.050	0.870	B	7 Slots 2 Tapped Holes	1	**CA20BD3**
1220, 1420, 5, 14x12	20.000	3.000	0.500	F	Reverse Bevel 7 Holes Counterbored	2	**CA20FA3**
1220, 1420, 5, 14x12, 585	19.990	3.220	0.500	F	Reverse Bevel 5 Holes Counterbored	2	**CA20FB3**
1220, 1420, 5, 14x12	20.250	2.812	0.500	B	7 Slots 3 Open Holes	2	**CA20B3**
1420, 585, 5, 1220, 14x12	20.000	3.250	0.500	F	Keen Edge 5 Holes Counterbored	1	**CA20FC3**
1220, 1420, 5, 14x12	20.000	3.312	0.500	F	Keen Edge 5 Holes Counterbored	6–10 –14	**CA20FJ3**
20	20.000	2.312	0.625	F	Keen Edge	1	**C20A3**
20	20.000	2.320	0.625	F	Radial Rotor 7 Holes	3–5–7	**CC20F3**
20	19.970	3.375	0.875	B	7 Slots 2 Tapped Holes (15 Bevel)	1	**CC20B3**
	19.970	3.375	0.875	B	7 Slots 2 Tapped Holes (8 Bevel)	1	**CC20BA3**
20, 1837	20.000	2.031	1.250	F	Hook Fly 7 Holes	1	**C20FE3**
20, (Old)	20.000	3.250	0.625	F	7 Holes	1	**CC20FA3**
18, 37, 20	28.750	3.312	0.656	F	Reverse Bevel 4 Holes	1	**C29F3**
1524–24	24.000	2.812	0.625	F	Radial Rotor 8 Holes (15 Degree)	3–5	**CB24FA3**
1524–24	24.375	3.312	0.625	B	7 Slots 2 Tapped Dowels ¾" Slot	2	**CB24BC3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Cumberland (cont.)							
	24.000	3.344	0.625	F	Radial Rotor 5 Holes Counterbored	1	**CB24FC3**
1524–24 #80, 24B-MED	24.000	3.250	0.625	F	Reverse Bevel 5 Holes Counterbored	3–5	**C23FE3**
1524–24, #80	24.000	3.343	0.625	F	Keen Edge 5 Holes Counterbored	3–5	**CB24F3**
1524	23.990	2.812	0.625	F	Radial Rotor 8 Holes (8 Degree)	3–5	**CB24FD3**
1524	24.365	3.312	0.625	B	7 Slots 2 Tapped Dowels ¾ Slot 8 Degree	1	**CB24B3**
1524	24.365	3.312	0.625	B	7 Slots 2 Tapped Dowels ⅞" Slot	2	**CB24BA3**
#80, #80–85	25.000	2.875	0.500	B	7 Slots	1	**C24B3**
1524, #80, #80–85	24.000	3.250	0.625	F	Reverse Bevel 5 Holes	1	**CB24FB3**
24B	24.000	3.625	0.875	F	Reverse Bevel 5 Holes Counterbored	1	**C24FC3**
24B	24.375	3.000	0.625	B	7 Slots 2 Tapped Dowels	1	**C25B3**
24 HS Rotor	24.000	3.625	0.875	F	Reverse Bevel 5 Holes Counterbored	1	**C24FF3**
2415, HOG	24.365	3.812	0.625	B	7 Slots 2 Tapped Dowels	1	**C24BA3**
2415, HOG	12.000	2.785	0.500	F	4 Holes Counterbored Reverse Bevel	1	**C12FC3**
24RR, 1524	24.000	2.750	1.125	F	Hook Fly 8 Holes Radial Rotor	1	**C24FE3**
1426-I	13.160	3.437	0.625	F	Reverse Bevel Left Hand 3 Holes Counterbored	3	**C13FL3**
1426-I,1–5 CUT/BLWR	13.170	3.437	0.625	F	Reverse Bevel Rt. Hand 3 Holes Counterbored	3	**C13FR3**
1426-I	13.170	3.437	0.625	F	Keen Edge Left Hand 3 Holes Counterbored	1	**C13FLA3**
1426-I	13.170	3.437	0.625	F	(Same as C13FLA) Keen Edge Right Hand 3 Holes Counterbored	1	**C13FRA3**
1426-I	13.177	2.531	0.500	B	3 Slots	4	**CA13BA3**
1426-I	13.063	2.750	0.510	B	3 Slots No Bevel	1	**CA13BB3**
684, 1426	13.093	3.250	0.500	F	Rt. Hand Reverse Bevel 3 Holes Counterbored	2	**C13FAR3**
684, 1426	13.093	3.250	0.500	F	Left Hand Reverse Bevel 3 Holes Counterbored	2	**C13FAL3**
684, 1426, 284	13.187	3.250	0.500	F	Right Hand Keen Edge 3 Holes Counterbored	3	**CA13FR3**
684, 1426, 284	13.175	3.250	0.500	F	Left Hand Keen Edge 3 Holes Counterbored	3	**CA13FL3**

GRANULATOR KNIVES

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Cumberland (cont.)							
684 Special	13.175	3.250	0.500	F	Keen Edge 35 Counterbored Left Hand Slots	1	**CA13LA3**
684 Special	13.175	3.250	0.500	F	Keen Edge 35 Counterbored Right Hand Slots	1	**CA13RA3**
684, 1426	13.175	2.781	0.500	B	3 Slots No Bevel	4	**CA13B3**
1426, HOG, 3250	25.125	3.812	0.875	B	6 Slots 2 Tapped Dowels 2 Holes	1	**C26B3**
3250	11.250	4.312	1.250	F	Keen Edge 4 Holes Counterbored	25	**C12BB3**
2815H, 28H	5.365	4.023	1.187	F	Reverse Bevel 2 Holes Counterbored	1	**C6F3**
1836, 1836 I	11.990	3.793	0.500	F	Reverse Bevel 3 Holes	9	**C12FL3**
1836, 1836 I	12.130	3.870	0.500	B	Double 4 Slots Cutting Edge	6	**C12BD3**
1836	31.500	4.000	1.125	F	Low Shear 10 Holes	9	**C32F3**
1836	32.000	4.500	1.125	B	10 Open Slots	6	**C32B3**
1828–28	13.990	2.703	1.100	F	Hook Fly 5 Holes	1	**C14F3**
1828–28	13.937	3.312	0.500	F	Radial Rotor 5 Slots	6	**CB28FA3**
	27.990	4.291	0.750	F	Reverse Bevel 5 Holes Counterbored	3–5	**C28FB3**
1828–28	28.000	4.339	0.750	F	Keen Edge 5 Holes (Most Popular)	3–5	**CB28F3**
1828–28	18.500	4.219	0.750	F	Reverse Bevel 6 Holes	1	**C19FA3**
1828–28, 28B	28.312	3.812	0.875	B	8 Slots 3 Tapped Dowels (Most Popular)	2	**CB28B3**
	18.522	4.125	1.125	F	Reverse Bevel 4 Holes Counterbored	1	**C19FB3**
1828–28, 28B	28.000	4.338	1.125	F	Reverse Bevel 5 Holes Counterbored	1	**C28FC3**
1828–28	13.990	3.312	1.100	F	Hook Fly 5 Holes	1	**C14HF3**
24H	20.875	3.312	1.187	F	5 Holes Counterbored Reverse Bevel	1	**C20FG3**
24H	20.875	3.312	1.187	F	Reverse Bevel 5 Holes Counterbored Notched	1	**C20FJ3**
24T	6.250	2.875	0.500	F	Keen Edge 2 Holes Right Hand	1	**C6FR3**
24T	6.250	2.875	0.500	F	Keen Edge 2 Holes Left Hand	1	**C6FL3**
24T	25.000	2.834	0.500	F	Keen Edge 6 Holes	1	**C25F3**
24T	26.413	2.795	0.500	B	6 Slots 2 Tapped Dowels	1	**C27B3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Cumberland (cont.)							
24×28	14.133	3.307	0.593	B	Right Hand 4 Slots 2 Tapped Holes	1	**C14BR3**
24×28	14.133	3.307	0.593	B	Left Hand 4 Slots 2 Tapped Holes	1	**C14BL3**
24×28 CHEVRON	14.082	4.238	0.750	F	Reverse Bevel 3 Holes LH Counterbored	1	**C14FAL3**
24×28	14.156	4.238	0.750	F	High Shear Left Hand 3 Holes Counterbored Slants Left	3	**C15FAL3**
24×28 (See C14FAR)	14.156	4.238	0.750	F	High Shear Right Hand 3 Holes Counterbored Slants Left	3	**C15FAR3**
24×28 CHEVRON	14.082	4.238	0.750	F	Reverse Bevel Rt. Hand 3 Holes Counterbored Slants Right	1	**C14FAR3**
24×28	14.000	4.238	0.750	F	Reverse Bevel 3 Holes Counterbored Rt. Hand	1	**C14FBR3**
24×28	14.000	4.238	0.750	F	Reverse Bevel 3 Holes Counterbored Left Hand	1	**C14FBL3**
#30	15.000	2.875	0.625	F	Radial Rotor 5 Holes	6–10	**CC15FB3**
#30	15.032	2.781	1.125	F	Hook Fly 5 Holes	1	**C16HF3**
#30	15.062	4.250	0.750	F	Keen Edge 5 Holes Counterbored	6–10	**CC15F3**
#30	15.062	2.875	0.750	F	Keen Edge 5 Holes Countersunk	4	**CC15FA3**
#30	15.187	3.812	0.875	B	5 Slots 2 Tapped Dowels	4	**CC15B3**
#30	15.187	3.812	0.875	B	5 Slots 2 Tapped Holes	1	**CC15BA3**
30	15.748	3.268	0.669	F	Keen Edge 4 Holes Counterbored	1	**CC15BB3**
30T	15.313	3.303	0.671	F	Keen Edge 4 Holes Counterbored	1	**CC15BC3**
	16.000	2.763	0.617	B	4 Slots	1	**CC15BD3**
30T	16.250	2.812	0.500	B	5 Slots	1	**CA17B3**
30T, 56T	28.500	3.312	0.688	F	Reverse Bevel Left Hand 6 Holes Counterbored	1	**C28FBL3**
30T, 56T	28.500	3.312	0.688	F	Reverse Bevel Rt. Hand 6 Holes Counterbored	1	**C28FBR3**
4284	15.927	3.218	0.375	F	4 Holes Slant on Rt. Side Reverse Bevel	1	**C16FG3**
30T, 56T	28.490	3.307	0.687	F	Keen Edge Right Hand 6 Holes Counterbored	1	**C28FAR3**
30T, 56T	28.500	3.307	0.687	F	Keen Edge Left Hand 6 Holes Counterbored	1	**C28FAL3**
30T, 56T	29.000	2.750	0.625	B	6 Slots 2 Tapped Dowels	1	**C29B3**

GRANULATOR KNIVES

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Cumberland (cont.)							
56T	28.937	2.720	0.625	B	Right Hand 6 Slots 2 Tapped Dowels	1	**C29BR3**
56T	28.937	2.765	0.625	B	Left Hand 6 Slots 2 Tapped Dowels	1	**C29BL3**
56T	19.312	2.765	0.619	B	4 Slots 2 Tapped Holes No Bevel	1	**C20B3**
1837	18.500	3.312	0.500	F	(No Bevel) 6 Slots	6–10 –14	**C19FC3**
	18.500	3.750	0.750	F	Radial Rotor 6 Holes	1	**C19RR3**
1837	18.490	3.312	0.500	F	6 Slots 8 Bevel	6–10 –14	**C19FD3**
	18.552	4.312	1.125	F	Right Hand 4 Holes Counter-bored Reverse Bevel	1	**C18RB3**
1837–37, 8185, (3KN ROTOR), 37H, 37B	18.562	4.239	0.750	F	Right Hand Keen Edge 4 Holes Counterbored	5–6 –10	**C18FAR3**
1837–37, 8185, (3KN ROTOR), 37H, 37B	18.562	4.239	0.750	F	Left Hand Keen Edge 4 Holes Counterbored	5–6 –10	**C18FAL3**
1837–37, 37H, 8185	18.562	4.234	0.750	F	Reverse Bevel 4 Holes Counterbored Rt. Hand (Bigger CB)	1	**C18FBR3**
1837–37	17.625	4.239	0.750	F	Reverse Bevel 4 Holes Counterbored	1	**C18FA3**
1837–37, 37H, 8185	18.562	4.234	0.750	F	Reverse Bevel 4 Holes Counterbored Left Hand (Bigger CB)	1	**C18FBL3**
37	18.562	4.340	0.750	F	Low Shear 4 Holes Counterbored	1	**CB18FD3**
1837	18.500	2.547	1.016	F	Hook Fly 6 Holes	1	**CB18HF3**
1737–37, 37H,37B	18.750	3.812	0.875	B	5 Slots 2 Tapped Dowels (33 Degree Downstroke)	4–5 –6–10	**CB18BA3**
	12.140	2.240	0.500	B	4 Slots Open 50 Degree Bevel	1	**C12BE3**
1837–37	18.740	3.812	0.875	B	Reverse Bevel 5 Slots 2 Tapped Dowels Downstroke	1	**CB18B3**
37B, 37, HOG	18.552	4.312	1.125	F	Left Hand 4 Holes Counter-bored Reverse Bevel	6	**CB18FL3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Cumberland (cont.)							
	18.562	4.320	1.125	F	Left Hand, 4 Counterbored Holes, Reverse Bevel	1	**CB19FL3**
	18.562	4.320	1.125	F	Right Hand, 4 Holes Counterbored Reverse Bevel	1	**CB19FR3**
37B	18.552	4.312	1.125	F	Reverse Bevel Rt. Hand 4 Holes Counterbored	1	**CB18FR3**
37, HOG	7.250	3.687	1.187	F	3 Holes Counterbored	1	**C7FA3**
37, HOG	18.740	4.253	0.875	B	5 Slots 2 Tapped Dowels (8 Degree Upstroke)	1	**C18BD3**
1462, 37H	7.250	3.700	1.186	F	Reverse Bevel 3 Holes Counterbored	1	**C7FB3**
1462, 37H	18.688	3.750	0.875	B	Reverse Bevel 5 Slots Tapped Dowels Downstroke	1	**CB18BF3**
1462, 37H	18.688	4.250	0.875	B	5 Slots Tapped Dowels Downstroke	1	**CB18BB3**
37F	33.865	3.615	1.375	F	Hook Fly 8 Holes Counterbored	8	**C34HF3**
37	18.562	4.340	0.750	F	4 Holes Counterbored Reverse Bevel	1	**CB18FC3**
3715	7.240	3.953	1.187	F	3 Holes Counterbored	1	**C7FC3**
	18.740	4.250	0.875	B	5 Slots 2 Tapped Dowels	1	**CB18BC3**
3715H	18.750	3.468	0.875	B	6 Slots 2 Tapped Dowels	1	**CB18BD3**
1462	30.630	4.250	1.093	F	Reverse Bevel Rt. Hand 6 Holes Counterbored	1	**CB31F3**
1462	15.968	4.250	0.787	B	5 Slots 2 Tapped Dowels	1	**C15B3**
43	21.500	3.000	0.813	F	Radial Rotor 6 Holes	6	**CC21FA3**
43	21.687	3.812	0.875	B	6 Slots 2 Tapped Holes	1	**CC21B3**
5018	8.110	3.687	1.187	F	3 Holes	36	**C8F3**
	25.000	3.165	0.500	F	No Bevel 8 Slots (RC 59–61)	1	**C25FA3**
50H	8.125	3.687	1.187	F	Reverse Bevel 3 Holes Counterbored	1	**C8FA3**
50F	25.187	3.812	1.375	B	6 Slots 2 Tapped Holes	1	**C25BC3**
50F	23.000	3.312	1.187	F	Left Hand Reverse Bevel 5 Holes Counterbored	1	**C23FAL3**
50F	23.000	3.312	1.187	F	Rt. Hand Reverse Bevel 5 Holes Counterbored	1	**C23FAR3**
12×24	23.000	2.812	0.625	F	Keen Edge 9 Holes	1	**C23FB3**
12×24	23.937	3.125	0.875	B	8 Slots 2 Tapped Dowels	1	**C23BB3**
50F	23.000	3.312	1.187	F	C23FAL notched	1	**C23FNL3**
50F	23.000	3.312	1.187	F	C23FAR notched	1	**C23FNR3**

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Cumberland (cont.)							
2050–50	25.000	4.250	0.750	F	Reverse Bevel 5 Holes Counterbored	6–10 –14	**CB25F3**
2050–50, 50T	25.000	3.312	0.500	F	8 Slots Radial Rotor No Bevel	6–10 –14	**CB25FA3**
2050–50	25.000	4.312	0.750	F	Keen Edge 5 Holes Counterbored	6–10 –14	**CB25FD3**
2050–50, 50B, 50H, 50T	25.187	3.812	0.875	F	6 Slots (Upstroke) 2 Tapped Dowels (use with K26500) Keen Edge Style	4	**CB25B3**
	25.000	4.588	1.125	F	5 Holes Counterbored Reverse Bevel	1	**CB25RBA3**
2050	25.125	3.810	0.880	B	6 Slots 2 Tapped Dowels	4	**CB25BA3**
50	25.000	4.465	0.625	F	Keen Edge 5 Holes Counterboard Rt. Hand	1	**C25FAR3**
50	25.000	4.465	0.625	F	Keen Edge 5 Holes Counterboard	1	**C25FAL3**
2050B, 50B	25.000	4.375	1.125	F	Reverse Bevel 5 Holes Counterbored High Shear Rotor	1	**C24FD3**
2050–50, 50H	25.146	3.815	0.875	B	(Downstroke) 6 Slots 2 Tapped Dowels (use with CB25B) Reverse Bevel Stlye	1	**C24BB3**
50B	25.000	4.320	1.125	F	5 Counterbored Holes Reverse Bevel	1	**C24FG3**
	27.990	4.291	0.750	F	5 Counterbored Holes Keen Edge	1	**C28FD3**
1456	28.713	4.335	0.787	F	Keen Edge Right Hand 6 Holes Counterbored	3	**C28FR3**
1456	28.713	4.335	0.787	F	Keen Edge Left Hand 6 Holes Counterbored	3	**C28FL3**
1456	28.927	4.125	0.750	B	6 Slots 2 Tapped Dowels	4	**C29BA3**
66T	34.048	2.772	0.625	B	6 Slots 2 Tapped Dowels	1	**CA34B3**
66T	33.559	3.290	0.687	F	7 Holes Counterbored	1	**CA34F3**
	9.937	1.625	0.375	F	4 Holes Keen Edge	1	**CA10F3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Flinchbaugh							
57	6.500	2.375	0.437	F	3 Holes Keen Edge	2	**L7F3**
79	9.000	2.375	0.437	F	High Shear 5 Holes	2	**L9F3**
79	9.000	1.437	0.375	B	5 Open Slots	2	**L9B3**
911	11.000	2.875	0.562	F	High Shear 6 Holes	1	**L11F3**
911	11.000	2.875	0.562	F	Reverse Bevel 6 Holes	2	**L11FA3**
911	11.000	1.875	0.500	B	5 Open Slots	2	**L11B3**
1425 HOG	12.000	3.875	0.937	F	Keen Edge 4 Holes	6	**L24F3**
1425 HOG	12.490	3.875	0.937	B	4 Open Slots	4	**L24B3**
1437, 1425, 1850	12.250	3.875	0.687	F	Keen Edge 3 Holes	6	**L25F3**
1437, 1425, 1856	12.490	2.750	0.687	B	4 Open Slots	4	**L25B3**
1437, 1425, 1850	12.490	2.750	0.687	B	Same as L25B w/ Closed Slots	4	**L12B3**
1214	13.500	3.312	0.562	F	High Shear 5 Holes	2	**L14F3**
1214	13.500	1.937	0.562	B	5 Open Slots	2	**L14B3**
1219	18.500	3.375	0.562	F	High Shear 7 Holes	2	**L19F3**
1219	18.500	1.937	0.562	B		1	**L19B3**
1022	21.000	2.875	0.687	F		1	**L22F3**
Foremost							
SG-80, SG300	8.000	1.937	1.187	F	Hook Fly Reverse Bevel 3 Holes	1	**F8HF3**
56-80, SG300	8.000	1.937	0.625	B	4 Slots	1	**F8BA3**
2A-1, 2A-3, 2A-4, 5C-1, 2A-2	8.000	2.218	0.500		Fly/Bed 3 Holes Countersunk	2–4	**F8FB3**
Y8301-63C, 1008MS	9.500	2.625	0.500	F	Reverse Bevel 2 Holes	1	**F10FA3**
	11.000	1.937	1.187	F	Hook Fly 5 Holes	1	**F11HF3**
	11.000	2.500	0.625	B	5 Slots	1	**F11B3**
HD1, HD3, HD5, QG1010, MS10, MS20, 10×11, X7301-15, 56100, 56400	9.990	1.937	1.187	F	Hook Fly 4 Holes	2	**F10H3**
HD1, HD3, HD5, MS10, QG1010, MS20,10X11, SRG810, X7301-14, 56100, 56400	10.000	1.937	0.625	B	4 Slots	2	**F10B3**
	14.000	1.937	0.625	B	5 Slots Single Bevel	1	**F14BB3**
SHD-5	11.000	3.875	0.875	F	Keen Edge 2 Holes	1	**F11F3**
HD5, QG1010, SG400	20.000	2.250	0.625	B	8 Slots	1	**F20B3**
HD5B	20.000	3.688	1.000	F	Reverse Bevel 4 Holes Counterbored	1	**F20F3**
HD1, MS20	20.000	1.937	1.187	F	Hook Fly 8 Holes	1	**F20HF3**
SK810, SRG810	10.000	2.250	0.500	F	2 Slots	1	**F10F3**
	9.990	1.937	0.625	B	4 Slots	1	**F10BA3**
6A, 6B, HD8	12.000	2.187	1.187	F	Hook Fly 4 Holes	4	**F12H3**
6B, HD8	23.968	2.250	0.625	B	8 Slots	2	**F24B3**
HD8	36.000	3.000	1.000	B	9 Slots (Fly is F12HFA)	1	**F36B3**

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Foremost (cont.)							
HD6, HS18, MS18, SCMS18, SMS18, SG300, QG1814, 6A	18.000	1.937	1.187	F	Hook Fly with 6 holes (Recessed to 9⁄16″)	2	**F18H3**
HD6, HS18, 6A, MS18, SCMS18, SMS18, QG1814	18.000	2.250	0.625	B	6 Slots	2	**F18B3**
SHD8	12.865	3.763	0.875	F	3 Holes Keen Edge	1	**F13FB3**
HD7	13.000	3.875	0.875	F	3 Holes Keen Edge	1	**F13F3**
HD7	24.000	3.000	1.000	B	6 Slots Single Bevel	1	**F24BA3**
6-B, 6-A	23.968	3.250	0.625	B	8 Slots Single Bevel	1	**F24BB3**
6-B	11.990	2.187	1.187	F	Hook Fly 4 Holes	1	**F12HF3**
6A, 6B, 1624	12.000	2.250	0.625	B	4 Slots 2 Tapped Dowels	4	**F12B3**
3C-2, 3E-1, MS12, X7202-30	12.000	2.218	0.500		Fly/Bed 4 Holes Countersunk	2	**F12FB3**
S3E-1A, 3C-2, MS12, 11½″ HS	11.500	2.625	0.500	B	Reverse Bevel 4 Holes	1	**F12BA3**
	11.990	2.250	1.250	F	Hook Fly 4 Holes	1	**F12HF3**
Pipe cutter PL5431	12.000	2.125	1.125	F	Hook Fly 4 Holes	1	**F12HFA3**
13½″ HS	13.500	2.625	0.500		Fly/Bed	1	**F14FBA3**
	13.500	2.625	0.500	F	Reverse Bevel 4 Holes	1	**F14RB3**
DSC-14, S45	14.000	2.250	0.500	F	Keen Edge 5 Tapped Holes	1	**F14FB3**
DSC-14	14.000	1.937	0.500	B	Keen Edge 5 Tapped Holes	1	**F14BA3**
S30, S45, HD4	15.000	4.000	1.000	B	5 Tapped Holes	6	**F15B3**
S45, S30, PG2415, HD4	14.985	4.000	1.000	B	5 Tapped Holes	6	**F15FA3**
545, 230, PL2415, H04	14.985	5.594	1.000	B	5 Tapped Holes Double Cutting Edge	1	**F15BA3**
3030	15.000	3.750	0.875	B	4 Slots No Bevel Slants Left	1	**F15BB3**
S45, S30, 3030	15.000	3.875	0.875	B	4 Slots No Bevel	1	**F15BC3**
3030/3048	14.802	3.875	0.875	F	Keen Edge Left Hand 3 Holes	1	**F15FB3**
HD2, HD4, 2H, SG500, SG400, QG1410, MS14, MS28, SG200, HD44, DSC-14, X7302-20	14.000	1.937	1.187	F	Hook Fly 5 Holes	2–4	**F14H3**
SG200, MS14, QG1410, HD2, SG400, HD4, MS28, 2H, X7302-19, HD44, DSC-14	14.000	1.937	0.625	B	5 Slots (Possible F14BB)	2	**F14B3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Foremost (cont.)							
HD4	14.000	1.750	0.625	F	5 Holes 10 Degree Bevel Radial Rotor	1	**F14FC3**
HD2	13.990	1.937	0.625	B	5 Slots 1 End Tapered (Possible F14B)	9	**F14BB3**
15½" HS, 5CL	15.500	2.625	0.500	F	Reverse Bevel 5 Holes	8	**F15RB3**
5CI, 16" SHEAR	16.000	2.187	0.500		Fly/Bed 6 Holes Countersunk	2	**F16FB3**
	16.000	2.750	0.500	F	Reverse Bevel 5 Slots	1	**F16RB3**
17" HS	17.500	2.625	0.500		Fly/Bed	1	**F17FB3**
	17.500	2.625	0.500	F	Keen Edge 5 Holes	1	**F17F3**
	17.990	2.250	0.625	B	6 Slots (Larger Slots)	1	**F17B3**
Gloucester							
68, 68BPS	7.500	2.937	0.468	F	Reverse Bevel 4 Holes	2	**G7F3**
68, 68BPS	7.875	2.437	0.468	B	Reverse Bevel 4 Slots	1	**G7B3**
68	7.535	2.910	0.500	F	Reverse Bevel 3 Holes	1	**G7FA3**
1012	11.875	3.937	0.562	F	Reverse Bevel 6 Holes	2–3	**G10FA3**
1012BL10	11.500	3.937	0.562	F	Reverse Bevel 6 Holes	1	**G10F3**
1012BL10	11.875	3.375	0.562	B	6 Slots	1	**G10B3**
BP10	11.750	3.937	0.562	F	Reverse Bevel 6 Holes	1	**G12F3**
1416BP20	15.875	2.906	0.562	B	6 Slots	1	**G15B3**
1416BP20	15.750	3.715	0.562	F	Reverse Bevel 5 Holes	1	**G15FA3**
1218	17.312	3.950	0.562	F	7 Holes Reverse Bevel	1	**G17F3**
1218	17.500	3.937	0.562	F	Reverse Bevel 5 Holes	3	**G17FA3**
1218	17.875	3.000	0.562	B	7 Slots	1	**G17B3**
1420BP	19.740	3.937	0.555	F	Reverse Bevel 5 Holes	1	**G19F3**
1420BP	19.312	3.812	0.562	F	Reverse Bevel 5 Holes 3 Degrees Low Shear	1	**G19FB3**
1420, BP30	19.677	3.750	0.562	F	Reverse Bevel 6 Holes	1	**G19FA3**
1420, BP30	19.875	3.000	0.562	B	8 Slots	1	**G19BA3**
1225	24.875	3.875	0.562	F	Reverse Bevel 5 Holes	1	**G25F3**
1225	24.875	3.000	0.562	B	9 Slots 2 Tapped Dowels	2	**G25B3**
250, 50TP10	24.750	2.937	0.468	F	Reverse Bevel 9 Holes	6	**G24F3**
250, 50TP10	24.927	2.437	0.468	B	9 Slots 2 Tapped Dowels	2	**G24B3**
1428, HD60, B21005023	27.625	3.875	0.687	F	Keen Edge 5 Holes	1	**G28F3**
1428, HD60 B21005024	27.985	3.875	0.687	B	8 Slots	1	**G28BA3**
1428	28.000	3.906	0.687	B	8 Slots 2 Tapped Dowels	2–4	**G28B3**
1416BP15	15.800	3.937	0.562	F	4 Holes	1	**G15F3**
30TD10	29.865	2.880	0.437	F	Reverse Bevel 10 Holes	1	**G29F3**
30TD10	29.927	2.375	0.437	B	10 Slots 2 Tapped Holes Single Bevel	1	**G29B3**
1416BP15	15.800	3.937	0.562	F	4 Holes	1	**G15FB3**

GRANULATOR KNIVES

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Granutec							
66 (A66-0015-2)	5.865	1.500	0.250	B	3 Slots	1	**GR6B3**
66 (A66-0010-3)	5.865	2.375	0.375	F	2 Holes	1	**GR6F3**
810-AM A810-002-3	9.906	2.375	0.500	F	High Shear 2 Holes Counterbored	1	**GR10F3**
810	9.906	2.375	0.500	F	Reverse Bevel 2 Holes Counterbored	1	**GR10FA3**
810-AM A810-0003-2	9.875	1.750	0.375	B	4 Slots	1	**GR10B3**
1012TFG, 1012HN15	11.875	2.125	0.375	B	5 Slots	1	**GR12B3**
1012TFG, 1012HN15	11.875	2.312	0.500	F	2 Holes Counterbored	1	**GR12F3**
A1216	15.875	3.500	0.625	F		1	**GR16F3**
TSG1624, 1616/1612	15.875	3.625	0.625	F	High Shear 4 Holes	1	**GR16FA3**
	15.688	3.625	0.625	F	High Shear 4 Holes	1	**GR16FB3**
A1216	15.813	2.375	0.500	B	5 Slots Double Cutting Edge	1	**GR16B3**
P.E.I.	16.000	3.000	0.719	F	High Shear 4 Holes	1	**GR16FC3**
TSG1424-50, TSG1624	23.890	3.630	0.625	F	High Shear 6 Holes	1	**GR24F3**
TSG1424-50, TSG1624	23.890	3.630	0.625	F	Reverse Bevel 6 Holes	1	**GR24RB3**
TSG1424-50, TSG1624	23.890	2.375	0.500	B	7 Slots Double Cutting Edge	1	**GR24B3**
Herbold							
	10.625	3.937	0.866	F	2 Slots 3 Tapped Dowels	1	**H11F3**
	11.654	3.937	0.866	B	3 Slots 4 Tapped Dowels	1	**H11B3**
	11.654	3.858	0.866	B	Double Cutting Edge 3 Slots 4 Tapped Dowels	1	**H12B3**
	18.500	2.760	0.630	F	3 Slots 6 Tapped Holes	1	**H19F3**
	15.150	3.989	0.862	B	3 Slots 4 Tapped Holes	1	**H15B3**
45/100, SMS 80/120	19.236	3.937	0.875	B	3 Slots 4 Tapped Dowels	1	**H20B3**
45/100, SMS 80/120	19.093	3.937	0.875	F	Keen Edge 3 Slots 4 Tapped Dowels	14	**H20F3**
45/100	39.173	3.937	0.866	B	Double Cutting Edge 4 Tapped Dowels	1	**H40B3**
	19.093	3.937	0.875	F	3 Slots 4 Tapped Dowels 4 Degree Angled Ends	1	**H20FA3**
	18.585	3.937	0.866	F	Reverse Bevel 3 Holes Counterbored	1	**H19RB3**
45/100 SMS 80/120	19.330	3.346	0.630	B	4 Slots 4 Tapped Dowels	4	**H19B3**
SMS 80/60	23.425	3.937	0.866	B	6 Slots 4 Tapped Dowels Double Cutting Edge	1	**H24B3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Herbold (cont.)							
	22.362	3.937	0.866	F	3 Slots 4 Tapped Holes Angled Ends	1	**H24F3**
	22.362	3.937	0.866	F	3 Slots 4 Tapped Holes Reverse Bevel Slant on Right and Left side	1	**H24RB3**
80/60	15.748	3.937	0.866	B	4 Slots 4 Tapped Holes Double Cutting Edge	1	**H16B3**
	15.157	3.937	0.866	F	3 Slots High Shear 4 Tapped Dowels	1	**H16F3**
IMS							
A120SC, A144SC, A288SC, AGA120SC, AGU120SC, LP120SC, LP144SC, LP288SC	1.937	1.750	0.562	F	1 Hole Countersunk (use M8BA Bed)	1	**M2F3**
	1.406	1.437	0.468	F	1 Hole Countersunk	1	**M2FA3**
A86C, A187SC, LP86SC, LP187SC, AG86KHSC, AG866SC, AG868SC	2.125	1.750	0.562	F	1 Hole Countersunk (.687 Hole)	1	**M3F3**
Same as M3F Except Hole Size	2.125	1.750	0.562	F	1 Hole Countersunk (.375 Hole)	1	**M3FA3**
	2.125	2.500	0.813	F	Keen Edge 1 Hole Countersunk (.687 Hole)	1	**M3FB3**
LP288SC	2.125	2.500	0.562	F	1 Hole Countersuwnk Double Cutting Edge	1	**M3FC3**
LP86, A86, AG86	8.365	2.375	0.468	F	Reverse Bevel 4 Slots 2 Tapped Dowels	1	**M8FD3**
2031P	4.865	1.687	0.468	F	Reverse Bevel 2 Holes Countersunk	1	**M4F3**
2031P	4.968	1.531	0.468	B	2 Slots 2 Tapped Dowels	1	**M4B3**
2049	7.000	1.750	0.468	F	Reverse Bevel 2 Holes Counteresunk	1	**M7FA3**
2049 SERIES M1, M2, M3, G1, G2, G3, K3	7.000	1.312	0.468	F	Radial Rotor 2 Holes	2	**M7F3**
2049 SERIES M1, M2, M3, G1, G2, G3, K3	7.250	1.343	0.500	B	2 Open Slots 2 Tapped Dowels	1	**M7B3**
2049 SERIES	6.990	1.312	0.468	F	Reverse Bevel 2 Holes Radial Rotor	1	**M7FB3**
Same as M7B Except Smaller Slots	7.250	1.343	0.500	B	2 Open Slots 2 Tapped Dowels	1	**M7BA3**
G466	8.375	2.250	0.500	F	Reverse Bevel 3 Holes Countersunk 2 Tapped Dowels	1	**M8FE3**

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
IMS (cont.)							
2069	8.422	2.250	0.500	F	Reverse Bevel 3 Holes 2 Tapped Dowels Countersunk	1	**M8FA3**
2046 SERIES, 3040SP, LP86, 3046, K4, G4, XD1, M4 SERIES, GL2086 use M8FB	8.500	2.250	0.468	F	Reverse Bevel 3 Holes Countersunk	2–3	**M8FCC3**
2086, GLP2086, GLH2086, GAU26, GAA16CF, GAU46, 1030LB-SPH, 1030LB, 1030CP, 1030CP-SPH, CPGAU26, 2173, K1710K9, CPGAA16CF, K1085, K6, GLU-4173, GLS-4173, GHU4173, GHS4173	8.500	2.250	0.468	B	Bed/Fly Reverse Bevel 3 Holes Countersunk 2 Tapped Dowels (use M8B Bed)	2–3 –4	**M8FB3**
K6, 2086	8.500	2.250	0.468	F	Keen Edge 3 Holes Countersunk	2	**M8FF3**
K6, 2086, A86, 2086SP, 2173SP, A120SC, A144SC, A288SC, AGA120SC, AGU120SC, LP120SC, LP144SC, LP288SC	8.593	2.875	0.515	B	3 Slots 2 Tapped Dowels (15 Degree Angle)	2	**M8B3**
A187-SP, A187	8.250	3.375	0.625	F	Reverse Bevel 4 Slots 2 Tapped Dowels	4	**M9F3**
A187-SP, A187	8.500	3.375	0.625	B	Keen Edge 3 Slots 2 Tapped Dowels	4	**M9B3**
A86SPO	8.375	2.250	0.500	F	Reverse Bevel 4 Slots 2 Tapped Dowels	1	**M8FC3**
A86SPO	8.568	2.875	0.500	B	3 Slots 2 Tapped Dowels (55 Degree angle)	1	**M8BA3**
	8.450	2.250	0.468	F	Reverse Bevel 3 Holes Counterbored 2 Tapped Holes	1	**M9FA3**
285, AGU120	11.610	2.438	0.470	F	High Shear Reverse Bevel 4 Holes Counterbored	1	**M11FB3**
285-2120, AGU120	11.968	2.500	0.500	B	3 Slots 2 Tapped Dowels	1	**M11B3**
G566R	11.750	3.375	0.625	F	Keen Edge 4 Holes Countersunk	1	**M11FE3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
IMS (cont.)							
2028, 2056	27.990	4.338	0.875	F	High Shear 5 Holes Counterbored	6	**M28F3**
	11.937	3.500	0.625	B	3 Slots 2 Tapped Dowels	1	**M12B3**
LP120, A120-3, AGU120	11.750	2.750	0.562	F	Reverse Bevel 4 Slots 2 Tapped Dowels	1	**M12FA3**
LP-120, A120-3, AGU120	11.943	2.875	0.500	B	3 Slots 2 Tapped Dowels	1	**M12BD3**
M5, XD2, G5, M10, 2144SPO, K5, 2120, 3144, G566R, 12″ AUGER	11.875	3.500	0.625	F	Reverse Bevel 4 Holes Countersunk	2–3	**M12FB3**
M5, XD2, G5, M10, 2144SPO, K5, 2120, 3144, G566R, 12″ AUGER, CP300	11.990	3.500	0.625	B	Radial Rotor 3 Slots 2 Tapped Dowels	2	**M11D3**
A144-3, 25P, A-288SP, G566R, LP144-3, A144, LP144-MH	11.740	3.437	0.625	F	Reverse Bevel 4 Slots 2 Tapped Dowels	2–3	**M12F3**
A144-3, 35P, A-288SP, A144, LP144-3, LP144-MH	11.937	3.437	0.625	B	3 Slots 2 Tapped Dowels	1	**M12BA3**
	11.937	3.500	0.625	F	4 Holes Countersunk 2 Tapped Dowels	1	**M12FD3**
CP300, 2288SPBV	11.875	3.500	0.625	F	Reverse Bevel 4 Holes Countersunk 2 Tapped Dowels	1	**M12FC3**
2120	11.625	2.375	0.500	F	Reverse Bevel 4 Holes Counterbored	1	**M11F3**
2120, G866R	11.625	2.437	0.500	F	Keen Edge 4 Holes	1	**M11FA3**
14×17	16.500	4.313	3.712	F	Reverse Bevel 6 Slots Counterbored Beveled Cutting Edge 2 Tapped Dowels	1	**M16F3**
A-144-3-SP	11.937	3.437	0.625	B	3 Slots 2 Tapped Holes	1	**M12BE3**
A-144-3-SP	11.937	3.437	0.625	B	3 Slots 2 Tapped Dowels Single Bevel	1	**M12BF3**
	16.500	4.313	0.688	F	Reverse Bevel 6 Slots 2 Tapped Dowels Beveled Cutting Edge	1	**M16FA3**
Mitts & Merrill							
13CSD, 14CSF, 15CSH, no bed knife	4.750	9.000	0.625	F	Keen Edge 1 Open Slot	1	**MM4F3**
13CSD, 14CSF, 15CSH, no bed knife	4.750	9.000	0.625	F	(Same as MM4F with Serrated Back)	1	**MM4FA3**
	8.000	3.250	0.625	F	Keen Edge 1 Open Slot Serrated Back	1	**MM8F3**
8×10	10.250	2.250	0.375	F	Keen Edge 2 Holes Double Cutting Edge	2	**MM10F3**

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Mitts & Merrill (cont.)							
8×10	10.500	2.062	0.562	B	2 Holes	2	**MM10B3**
10×12	12.250	2.812	0.437	F	Keen Edge 2 Holes Double Cutting Edge	3	**MM12F3**
10×12	12.468	2.062	0.562	B	3 Holes	2	**MM12B3**
14	14.875	1.750	0.652	F	Hook Fly 4 Slots	1	**MM14F3**
1635	17.750	3.000	0.437	F	4 Holes	1	**MM18F3**
1635	17.750	2.060	0.562	B	3 Holes	1	**MM18B3**
	17.750	2.060	0.562	B	3 Slots	1	**MM18BA3**
13CSD	21.069	3.950	1.000	B	Keen Edge 2 Holes Countersunk	2	**MM21B3**
	17.750	2.820	0.437	F	4 Holes	1	**MM18FA3**
14×20	20.500	3.187	0.687	B	4 Holes	1	**MM20BA3**
14×20	20.240	2.875	0.437	F	Keen Edge 4 Holes	3	**MM20F3**
14×20	20.500	2.062	0.562	B	3 Holes	2	**MM20B3**
	24.000	3.250	0.750	F	5 Holes Counterbored	1	**MM24F3**
	24.365	3.375	0.625	B	7 Slots	1	**MM24B3**
	21.069	3.950	1.000	B	2 Countersunk Holes	1	**MM21BA3**
Nelmor							
AN67	5.820	2.375	0.319	F	Keen Edge 3 Holes	1	**N5F3**
AN67	5.936	1.883	0.379	B	2 Slots	1	**N5B3**
G66M1	5.625	2.125	0.312	F	High Shear 3 Holes Counterbored	1	**N6F3**
G66M1	5.953	1.687	0.375	B	3 Slots	1	**N6B3**
AN88M, AN88MS, L888M	7.740	2.375	0.312	F	High Shear 3 Holes	3	**N8F3**
AN88M, AN88MS, L888M	7.937	1.875	0.375	B	2 Slots	2	**N8B3**
G2436M2	8.900	3.937	1.000	F	Reverse Bevel 4 Holes Counterbored	20	**N8FA3**
AN1010M, 810VL, RG810M1, AN1010MS, GA1010M2, LB1010M, 810RG11, G810MI	9.500	2.375	0.437	F	Keen Edge 6 Holes Counterbored	2–3	**N10F3**
G810M1,G6310, RG810M1, AN1010M, AN1010MS, LB1010M, 810RG11, 810VL	9.500	2.375	0.437	F	Reverse Bevel 6 Holes Counterbored	2–3	**N10FA3**
G810M1,G6310, RG810M1, AN1010M, AN1010MS, LB1010M, 810RG11, 810VL	9.968	1.875	0.375	B	5 Slots	2	**N10B3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Nelmor (cont.)							
	9.490	2.375	0.437	F	6 Holes Counterbored High Shear	1	**N9F3**
G1012M1, RG1012M1, 1012RG11, G61012M1	11.500	2.750	0.500	F	Reverse Bevel 7 Holes Counterbored	2–3	**N12FA3**
G1012M1, G1012LS, RG1012M1,1012RG11, G61012M1	11.500	2.750	0.500	F	High Shear 7 Holes Counterbored	2–3	**N12F3**
G1012M1, G1012LS, RG1012M1,1012RG11, G61012M1, G1224	11.968	2.484	0.500	B	7 Slots	2	**N12B3**
G6012M1	11.958	3.524	0.500	B	7 Slots	1	**N12BA3**
G1214M1	13.490	3.375	0.562	F	High Shear 5 Holes Counterbored	2	**N14F3**
G1214M1	13.500	1.937	0.562	B	5 Open Slots	2	**N14B3**
	14.500	2.625	0.500	F	High Shear 6 Holes Counterbored	1	**N15F3**
1830 (see also N15BA)	14.750	3.187	0.625	B	5 Slots Double Cutting Edge	1	**N15BC3**
G1845 (see also N13FC)	14.490	3.625	0.625	F	Reverse Bevel 5 Holes Counterbored	3–4	**N13FA3**
G1215M1, RG1215M1, 1215RG11, G1213M1, 12295M1, RG12295M1, 1229RG11, G1226M1, G1830M1, G12295M1, G16296M1, 2030, 2045	14.500	3.625	0.625	F	Reverse Bevel 5 Holes Counterbored (Standard Rotor)	3–4	**N13FC3**
G1215 (old machines)	14.500	3.450	0.625	F	Reverse Bevel 5 Holes Counterbored	1	**N13FB3**
G1215M1, F512, RG1215M1,1215RG11, G1213M1, RG12295M1, 12295RG11,1830, G1226M1, G16295M1	15.000	2.750	0.625	B	5 Slots (check length, see N15B)	2	**N13B3**
G1215M1, RG1215M1, 1215RG11, G1213M1, RG12295M1,12295RG11, G1226M1, G1830M, G12295M1,G16295M1	14.500	3.610	0.625	F	High Shear 5 Holes Counterbored	3–4	**N13F3**
G1215M1, RG1215M1, 1215RG11, G1213M1, RG12295M1,12295RG11, G1226M1, G12295M1, G16295M1	14.718	2.750	0.625	B	5 Slots (check length, see N13B)	1	**N15B3**

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Nelmor (cont.)							
	14.718	3.625	0.625	B	Double Cutting Edge 5 Slots	1	**N15BB3**
G12295M1, G16295, F512,1830, G1215M1	14.500	3.625	0.625	F	High Shear 5 Holes Counterbored	1	**N13FD3**
1830 (short version of N15BC)	14.718	3.187	0.625	B		1	**N15BA3**
G1436M1	17.875	3.750	1.000	F	6 Holes Reverse Bevel Counterbored	1	**N17FC3**
G1436M,G2436M1	17.865	3.875	0.750	F	High Shear 6 Holes Counterbored	3–6	**N36F3**
G3036MR, BED N17BA	17.875	4.750	1.000	F	High Shear 6 Holes	1	**N17FB3**
G3036MR, FLY N17FB	17.935	3.625	0.750	B	6 Slots	1	**N17BA3**
G3036MZ	17.875	4.500	1.000	F	High Shear 6 Holes	1	**N17FD3**
G3036MZ (OEM)	17.875	4.530	1.000	F	High Shear 6 Holes	1	**N17FE3**
G3036M2	17.865	4.500	1.000	F	High Shear 6 Holes	1	**N17FF3**
	16.062	3.750	0.500	B	4 Slots Double Cutting Edge	1	**N16BA3**
G1416M1	15.865	3.312	0.500	F	Keen Edge 4 Holes Counterbored	1	**N16F3**
G1416M1	16.177	3.937	0.500	B	4 Slots Double Cutting Edge	1	**N16B3**
G1416M1	15.865	3.250	0.500	F	High Shear 4 Holes Counterbored	1	**N16FA3**
G1416M1	16.250	2.750	0.625	B	6 Slots	1	**N16BB3**
	17.875	4.500	1.000	F	High Shear 6 Holes	1	**N18FA3**
3030HD	14.500	4.000	1.000	F	5 Counterbored Holes Reverse Bevel	1	**N15FA3**
G1454MB, G2436MB, G1436MB, G1436M1, G2036MB, G2054MB, G2436M1, G3036M1, G2435	17.875	3.875	1.000	F	High Shear 6 Holes Counterbored; check slot length	3–6	**N35F3**
G1454MB, G2435, G1436MB, G1436M1, G2036MB, G2054MB, G2436MB, G3036M1, G2436M2, G1436MB, G1126M1	17.937	3.500	0.750	B	6 Slots 2 Tapped Dowels; check slot length 2.125″	4	**N35B3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Nelmor (cont.)							
G1436M	17.865	3.750	0.750	F	High Shear 6 Holes Counterbored	1	**N18FB3**
G2436M2 (MOD)	17.927	3.625	0.750	B	6 Slots	1	**N18BA3**
G3036M2, 2436M1	17.927	3.500	0.750	B	6 Slots Slot Length 1.625″	1	**N18BB3**
G3036M2, G2436M2	17.865	4.750	1.375	F	Keen Edge 6 Holes Counterbored	6–10	**N18FC3**
G3036M2 (MOD)	17.865	4.750	1.375	F	High Shear 6 Holes Counterbored	1	**N18FD3**
3036	17.875	3.500	0.750	B	6 Slots	1	**N18BC3**
	17.905	5.000	1.000	B	Keen Edge 8 Slots	1	**N18BD3**
1220RG11, G1620M1, G1820M1	17.250	5.655	1.000	F	6 Holes High Shear Counterbored	1	**N17FG3**
	17.875	4.000	1.000	F	High Shear 6 Holes Counterbored	1	**N17FH3**
2536M1	17.875	3.938	1.000	F	High Shear 6 Holes Counterbored	1	**N17FJ3**
1220 (SEM)	19.938	2.750	0.625	B	7 Slots	1	**N19BA3**
2056	18.563	3.875	1.000	F	Keen Edge 6 Holes Counterbored	1	**N18FE3**
2056, 2456MB	18.625	3.473	0.750	B	6 Slots	1	**N18BE3**
2456MB	18.562	3.938	1.000	F	Reverse Bevel 6 Holes Counterbored	1	**N18F3**
2456MB	18.562	3.938	1.000	F	Keen Edge 6 Holes Counterbored (same as N18F)	1	**N18FF3**
G1220M1, RG1220M1, 1220RG11, G1620M1, G1820M1, SEM 22 DIS, G1830M1	19.490	3.625	0.625	F	High Shear 7 Holes Counterbored	2–3	**N20F3**
G1620	19.958	3.250	0.625	B	7 Slots	1	**N19BB3**
G1220M1	19.950	3.188	0.625	B	8 Slots Double Cutting Edge	1	**N19BC3**
G1220M1, RG1220M1, 1220RG11, G1820, G1220MH, G1220M1, G1620M1, G1830M1	19.958	2.750	0.625	B	7 Slots	2	**N20B3**
Mini Hog	19.750	2.750	0.625	F	Hook Fly 7 Slots	1	**N19F3**
G1220M1, RG1220M1, 1220RG11, G1620M1, G1820M1, G1830M1	19.500	3.562	0.625	F	Reverse Bevel 7 Holes Counterbored	2–3	**N20FA3**
G1820M	19.958	2.750	0.500	B	7 Slots	2	**N20BB3**
G1820M	19.958	3.250	0.625	B	7 Slots Double Cutting Edge	1	**N20BA3**
G1220MH1	19.750	2.625	0.625	F	Keen Edge Open Holes	1	**N20FB3**

GRANULATOR KNIVES

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Nelmor (cont.)							
G1022M1	20.990	2.937	0.750	F	Low Shear 9 Holes	3	**N21F3**
G1022M1	21.937	2.875	0.750	B	9 Slots	2	**N22B3**
1634	16.750	3.634	0.625	F	7 Holes Counterbored High Shear	1	**N16FB3**
1634	16.937	3.169	0.635	B	6 Slots 2 Tapped Holes	1	**N16BC3**
WG6000	19.620	2.850	0.550	F	Keen Edge 4 Holes	1	**N19FA3**
3048MB, G3072M	23.875	5.000	1.000	B	10 Slots	1	**N23B3**
G3072M	23.240	6.000	1.000	F	8 Holes Counterbored High Shear	15	**N23FB3**
93072M	23.240	6.000	1.000	F	Reverse Bevel 8 Holes Counterbored	1	**N23FA3**
	23.875	5.000	1.000	B	10 Slots	1	**N23BA3**
	23.490	3.937	1.000	F	High Shear 8 Holes	1	**N24FB3**
G2024MB, G1424MB, G1448M1, G1224P	23.500	3.750	0.750	F	High Shear 8 Holes Counterbored (use on 100 H.P. or less)	3	**N24F3**
G1448	23.875	3.750	0.750	F	High Shear 4 Holes Counterbored	1	**N24FD3**
G2024MB, 6202,1424, G1424MB, G1448M1	23.937	3.500	0.750	B	7 Slots	2	**N24B3**
G1424MB, 6202	23.500	3.750	0.750	F	Reverse Bevel 8 Holes Counterbored (.687 Holes)	1	**N24FC3**
14×24	22.490	3.937	1.000	F	High Shear 6 Holes Counterbored	5	**N22F3**
14×24, G1448M1	23.861	3.500	0.750	B	8 Slots	2	**N22BB3**
G1448M1	23.938	3.500	0.750	B	8 Slots 2 Tapped Holes	1	**N22BA3**
G1424MND	23.490	3.750	1.000	F	8 Holes Counterbored Reverse Bevel (.812 Holes)	1	**N22FA3**
14×24, G2024MB	23.490	3.750	0.750	F	High Shear 8 Holes (.812 Holes)	3	**N22FB3**
G1424MB	23.490	3.937	1.000	F	8 Holes High Shear Counterbored .812" Holes (1.750 Counterbored)	1	**N24FA3**
3030HD	14.500	4.000	1.000	F	5 Counterbored Holes High Shear	1	**N14FA3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Nelmor (cont.)							
1424MB	23.490	3.750	1.000	F	High Shear 8 Holes Counterbored (1.375 CB)	1	**N22FC3**
G2024MB, G1424M, G1448M1, 1424MB	23.500	3.750	1.000	F	High Shear 8 Holes Counterbored (1.750" CB)	1	**N22FD3**
1424	23.937	3.500	1.000	B	7 Slots	1	**N22BC3**
RL450	7.086	3.937	0.394	F	Low Shear 3 Holes Double Cutting Edge	1	**N7F3**
Polymer							
68 SILENCER	7.740	2.550	0.562	F	Reverse Bevel 3 Holes Counterbored	1	**P7FD3**
68	7.555	2.550	0.562	F	Reverse Bevel 3 Holes Counterbored	1	**P7FC3**
68	7.490	1.937	0.437	F	Keen Edge 3 Holes	2	**P7F3**
68, 88	7.875	1.937	0.437	B	3 Open Slots	1	**P7B3**
68	7.500	2.550	0.562	F	Reverse Bevel 3 Holes Counterbored	3	**P7FH3**
68	7.865	1.875	0.437	B	3 Open Slots	1	**P7BA3**
68	7.750	1.937	0.437	F	Keen Edge 3 Holes	2	**P7FK3**
68	7.865	2.427	0.437	B	3 Open Slots	1	**P7BC3**
68, 88	7.875	2.375	0.375	F	Keen Edge 2 Holes	1	**P7FG3**
88	7.875	1.937	0.375	B	3 Slots	1	**P7FJ3**
1010A	9.760	2.650	0.500	F	High Shear 6 Slots	1	**P9FG3**
6438SC	11.562	2.875	0.562	F	Reverse Bevel 4 Holes Counterbored	1	**P12FA3**
	11.937	2.850	0.500	B	4 Open Slots	1	**P12BA3**
912	11.500	2.437	0.562	F	Keen Edge 4 Holes	2	**P11F3**
912, 912SP	11.802	2.455	0.590	B	4 Open Slots	1	**P11B3**
912SP	11.625	2.937	0.562	F	Keen Edge 4 Holes Counterbored	1	**P11FD3**
1225	12.000	3.937	0.938	F	Keen Edge 4 Holes	6	**P12F3**
1225	12.500	3.937	0.937	B	4 Open Slots	4	**P12B3**
1116	15.262	2.937	0.562	F	Right Hand Keen Edge 6 Holes	2	**P15FR3**
1116	15.262	2.937	0.562	F	Left Hand Keen Edge 6 Holes Counterbored	2	**P15FL3**
1116 (old)	15.490	2.930	0.562	F	6 Holes	2	**P15F3**
1116 (new)	15.703	2.937	0.562	F	6 Holes Counterbored Slant Left	1	**P15FA3**
1120	19.593	2.937	0.562	F	Keen Edge 7 Holes Counterbored Slant Left	2	**P19FE3**
1120	19.500	2.906	0.562	F	Reverse Bevel 7 Holes Counterbored	2	**P19FD3**
1120	19.865	2.937	0.562	B	7 Open Slots	1	**P19B3**

GRANULATOR KNIVES

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Polymer (cont.)							
1120 (OLD)	19.500	2.906	0.562	F	High Shear 7 Holes	2	**P19FA3**
1020 SIL	19.500	2.918	0.562	F	Keen Edge 5 Holes Counterbored	3	**P20F3**
	19.500	2.918	0.562	F	Reverse Bevel 5 Holes Counterbored	3	**P20FA3**
2040, 1620	20.000	3.875	0.937	F	High Shear 4 Holes	6	**P40F3**
2040	20.453	3.875	0.937	B	6 Open Slots	4	**P40B3**
1526, 1426 LOBOY	25.250	3.875	0.687	F	Keen Edge 5 Holes	3	**P26FA3**
1526, 1426 LOBOY	25.250	3.875	0.687	F	Keen Edge 5 Holes	3	**P26F3**
1526, 1426 LOBOY	25.750	3.437	0.687	B	7 Open Slots	2	**P26B3**
1526, 1426 LOBOY	25.927	3.437	0.687	B	7 Open Slots	1	**P26BA3**
32×74, 32×56	20.250	4.312	1.125	F	Reverse Bevel 4 Holes Counterbored	1	**P20FB3**
32×74	18.562	3.750	0.875	B	5 Slots 2 Tapped Holes w/ 2 Face Holes Single Bevel	1	**P18BA3**
	31.875	2.537	0.562	B	9 Open Slots	1	**P31B3**
	31.500	3.523	0.562	F	Reverse Bevel 9 Holes Counterbored	1	**P31FA3**
1632 SIL	31.500	3.500	0.562	F	Keen Edge 7 Holes Counterbored	1	**P31F3**
Rainville							
1011	11.000	2.000	1.250	F	Hook Fly 4 Holes Recessed .562″	2–3	**R11H3**
1011	11.000	2.000	0.625	B	5 Slots	1	**R11B3**
1011	11.000	2.000	0.625	B	4 Slots	2	**R11BA3**
1015, 1415	15.000	2.000	1.250	F	Hook Fly 6 Holes (Recessed .562″)	2–3	**R15H3**
1015, 1415	15.000	2.312	0.562	F	Fly 5 Holes	2–3	**R15F3**
1015, 1415	15.000	2.000	0.625	B	6 Slots	2	**R15B3**
1419	19.000	2.000	1.250	F	Hook Fly 8 Holes (Recessed .562″)	2–3	**R19H3**
1419	19.000	2.000	0.625	B	8 Slots	2	**R19B3**
	11.000	1.750	0.625	B	5 Slots	1	**R11BB3**
28SLS	11.000	2.000	1.135	F	Hook Fly 4 Holes	1	**R11HA3**
Ramco							
1030	5.150	1.577	0.625	F	2 Tapped Holes Double Cutting Edge	1	**RM6A3**
1030	5.109	1.812	0.500	B	4 Tapped Holes Double Cutting Edge	1	**RM6B3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Ramco (cont.)							
C1030	6.168	1.410	0.625	F	4 Tapped Holes Double Cutting Edge	1	**RM7F3**
1418H	9.062	2.359	0.875	F	2 Tapped Holes	1	**RM9F3**
1418H	8.937	2.641	0.625	B	2 Slots	1	**RM9B3**
	9.122	2.750	0.625	B	2 Slots Double Cutting Edge	1	**RM9BA3**
8×10	10.125	1.487	0.625	F	Keen Edge 3 Tapped Dowels Double Cutting Edge	2	**RM10F3**
8×10	10.115	1.750	0.500	B	6 Tapped Holes Double Cutting Edge	2	**RM10B3**
1424W	10.000	2.750	0.500	F	Radial Rotor 3 Slots	2	**RM10FA3**
	10.100	1.500	0.625	F	3 Holes Tapped and Counterbored	1	**RM10FB3**
8×10	10.125	1.503	0.625	F	3 Holes Tapped and Counterbored	1	**RM10FC3**
8×10	10.125	1.812	0.500	B	6 Tapped Holes Double Cutting Edge	1	**RM10BA3**
1012, B1012-R6	12.052	1.483	0.687	F	Keen Edge 3 Holes Counterbored Double Cutting Edge	2	**RM12F3**
1012, B1012-M17	11.984	2.125	0.500	F	3 Slots Double Cutting Edge	2	**RM12B3**
1012	12.052	2.875	0.750	F	Keen Edge 4 Holes Counterbored Single Cutting Edge	1	**RM12FA3**
14×18, (LT duty)	18.062	1.812	0.500	F	Reverse Bevel 4 Tapped Dowels	2	**RM18FA3**
14×18	18.000	2.750	0.612	B	4 Holes	2	**RM18B3**
14×18, 1436, (heavy duty)	18.062	2.312	0.875	F	Keen Edge 4 Holes Tapped and Counterbored Double Cutting Edge	2	**RM18F3**
1418I	18.043	2.874	0.875	F	Keen Edge 5 Holes Counterbored	6	**RM18FC3**
14×18, 1436, (use RM18BB)	18.000	3.000	0.625	B	4 Slots Double Cutting Edge	2	**RM18BA3**
2436, 1418	18.000	2.625	0.625	B	4 Slots Double Cutting Edge	1	**RM18BB3**
1527	26.927	3.875	2.000	F	Hook Fly 5 Holes Counterbored	1	**RM26F3**
1527	26.937	3.875	0.875	B	7 Open Slots	2	**RM27B3**
1527	26.937	3.875	2.000	F	Hook Fly 5 Holes (Recessed 1″)	3	**RM26FA3**

GRANULATOR KNIVES

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Ramco (cont.)							
1527 SPECIAL	13.490	4.250	1.375	F	3 Counterbored Holes Reverse Bevel	1	**RM13F3**
2436	17.927	2.687	0.625	B	4 Slots	1	**RM17B3**
2436	36.000	3.875	1.000	F	Reverse Bevel 8 Holes Counterbored	1	**RM35F3**
2436	17.927	2.687	0.875	B	4 Slots	1	**RM17BA3**
2436	36.000	3.875	1.000	F	Keen Edge 8 Holes Counterbored	1	**RM35FA3**
2436	18.000	2.755	0.625	B	4 Slots	1	**RM18BC3**
2436	18.019	2.375	0.625	F	4 Tapped Dowels	1	**RM18FB3**
2436	36.026	3.867	1.625	F	Hook Fly 8 Holes Counterbored	3	**RM36F3**
Rapid							
GK20,158	3.838	1.693	0.276	B	2 Slots	1	**RP4B3**
GK20,158	3.838	1.693	0.312	F	Keen Edge 2 Slots	1	**RP4F3**
GK205, 79C, K, GK2218A, 79MS	8.875	2.515	0.500	F	Low Shear 2 Slots	1	**RP8F3**
79MS	8.897	2.559	0.475	B	2 Slots	1	**RP9B3**
GK205, 79C, K, GK2218A	9.843	1.500	0.375	B	3 Tapped Dowels	1	**RP10BA3**
1012K	11.802	2.875	0.500	F	2 Slots	1	**RP12F3**
1012, GK3026	11.875	2.875	0.531	F	High Shear 2 Slots	3	**RP12FD3**
1012, GK3026	12.812	2.875	0.531	B	2 Slots Double Cutting Edge	2	**RP13FA3**
GK1000, 2442HOG, (HD ROTOR)	10.290	3.750	1.000	F	High Shear 3 Slots 2 Tapped Dowels 1″ Slots	20	**RP10FA3**
GK1000, 2442, (RS ROTOR)	0.296	3.750	1.000	F	Low Shear 3 Slots 2 Tapped Dowels ⅞″ Slots	20	**RP10F3**
GK1000, 2442	41.710	2.120	1.340	B	1 Upper 9 Slots Counterbored 8 Holes	1	**RP41B3**
GK1000, 2442	44.093	1.812	1.187	B	2 Lower 7 Tapped Holes 2 Tapped Dowels	2	**RP44B3**
GK1000R	13.740	2.437	0.710	F	No Holes	1	**RP13F3**
600 “V”	11.750	2.875	0.531	F	Left Hand Low Shear 3 Slots	4	**RP12FA3**
600 “V”	11.750	2.875	0.531	F	Right Hand 3 Slots	4	**RP12FVR3**
600C	11.740	1.885	0.580	F	No Holes	1	**RP12FB3**

GRANULATOR KNIVES

Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Rapid (cont.)							
GK640	11.990	2.810	0.562	F	Left Hand Low Shear 3 Slots	4	**RP12FVL3**
GK640	11.990	2.810	0.562	F	Right Hand Low Shear 3 Slots	4	**RP12FAR3**
GK640 (MOD)	11.990	3.310	0.562	F	High Shear 3 Slots Left Hand	1	**RP12FAL3**
	17.750	3.312	0.950	F	4 Slots Right Hand 2 Tapped Dowels High Shear	1	**RP18FR3**
	17.750	3.312	0.950	F	4 Slots Left Hand 2 Tapped Dowels High Shear	1	**RP18FL3**
	18.063	2.755	0.792	B	4 Slots 2 Tapped and Drilled Holes	1	**RP18B3**
GK600, GK625,1224C, GK650, GK640, GK600SK	12.000	2.875	0.562	F	Left Hand Low Shear 3 Slots	4	**RP12FSL3**
GK640 (MOD)	11.990	3.310	0.562	F	High Shear 3 Slots Right Hand	1	**RP12FS3**
GK600, GK625,1224C, GK650, GK640, GK600SK	12.000	2.875	0.562	F	Right Hand Low Shear 3 Slots	4	**RP12FSR3**
GK600,1224C, GK640, GK650, 600 "U", GK600SK	24.802	1.890	0.562	B	7 Tapped Dowels	2	**RP25BV3**
GK600	23.500	1.937	0.750	B	4 Slots Counterbored 3rd Bed	1	**RP24B3**
GK100C, 912C, 75C, 50C, 150C, 250E, 3023KU	11.654	2.625	0.562	F	Low Shear 2 Slots	1	**RP11F3**
	13.875	2.700	0.531	F	Radial Rotor 3 Slots Right Hand	1	**RP14FR3**
	13.875	2.700	0.531	F	Radial Rotor 3 Slots Left Hand	1	**RP14FL3**
GK600	28.740	1.889	0.550	B	3 Tapped Holes	1	**RP25BA3**
GK100C, 912C, 75C, 50C, 150C, 250E, 3023KU	12.625	1.875	0.562	B	Keen Edge 2 Tapped Holes 1 Tapped Dowel	1	**RP12B3**
GK100C, 912C, 75C	11.654	2.625	0.562	F	High Shear 2 Slots	1	**RP11FA3**
75E	15.150	1.815	0.560	B	2 Holes	1	**RP15BA3**
75E	15.150	1.815	0.560	B	Same as RP15BA but with end holes	1	**RP15BB3**
1831, GK8045	15.375	3.150	0.750	F	High Shear 3 Slots (slot .125 from back edge)	1	**RP16F3**
1831	15.375	3.740	0.790	F	Reverse Bevel 3 Slots Left Hand	1	**RP16FL3**
1831	15.375	3.740	0.790	F	Reverse Bevel 3 Slots Right Hand	1	**RP16FR3**

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Make & Model	Length	Width	Thickness	Fly/ Bed	Description	Qty/ Set	Part Number
Rapid (cont.)							
1831, GK8045	31.625	2.778	0.781	B	4 Slots	1	**RP32B3**
1831	30.938	2.778	0.790	B	3rd Bed No Bevel (Square)	1	**RP30B3**
1831K, 1830KU	15.375	3.125	0.781	F	Keen Edge 3 Slots (Slot .436 from back edge)	1	**RP16FA3**
1418	17.500	3.820	0.750	F	3 Slots	3	**RP18FA3**
1418, GK4535KU	18.656	3.250	0.750	B	3 Slots	2	**RP19B3**
GK4535KU	17.500	3.824	0.687	F	Keen Edge 3 Slots	1	**RP18F3**
GK300, GK4535KU	15.000	1.880	0.551	B	2 Tapped Holes	1	**RP15B3**

Granulator Screens

These screens are manufactured for your specific application from a standard ASTM A36 material or an AR235 steel for processing high-abrasive materials. Please complete the worksheet below and either fax or email a copy of this page to DME Fax: 888-808-4363; DME@dme.net.

(A) Length

(B) Overall width of screen

(C) Inside width of screen

(D) Depth of radius (inside)

(E) Thickness

(F) Hole size

(G) Width of flange

(H) Thickness of flange

(I) Bend radius

(J) Hole size on bar flange

(K) Counterbore hole size

(L) Edge to first hole

(M) Center to center of holes

(N) Side to first hole (if applies)

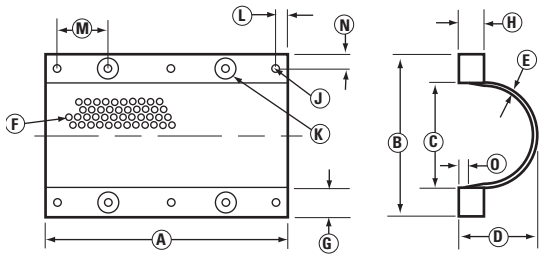
(O) Screen location

(Relative to top of bar)

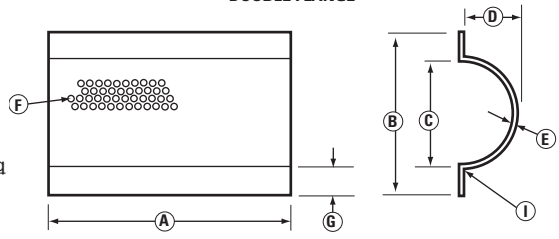
ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq

BAR FLANGE



DOUBLE FLANGE



Machine name:

Machine model:

O.E.M. # (if available):

Select one: ☐ Bar flange

☐ Double flange

Injection Machine Shots per Hour

Based on seconds per cycle											
Seconds per cycle	Shots per hour	Seconds per cycle	Shots per hour	Seconds per cycle	Shots per hour	Seconds per cycle	Shots per hour	Seconds per cycle	Shots per hour	Seconds per cycle	Shots per hour
1	3600.0	31	116.1	61	59.0	91	39.6	121	29.8	151	23.8
2	1800.0	32	112.5	62	58.1	92	39.1	122	29.5	152	23.7
3	1200.0	33	109.1	63	57.1	93	38.7	123	29.3	153	23.5
4	900.0	34	105.9	64	56.3	94	38.3	124	29.0	154	23.4
5	720.0	35	102.9	65	55.4	95	37.9	125	28.8	155	23.2
6	600.0	36	100.0	66	54.5	96	37.5	126	28.6	156	23.1
7	514.3	37	97.3	67	53.7	97	37.1	127	28.3	157	22.9
8	450.0	38	94.7	68	52.9	98	36.7	128	28.1	158	22.8
9	400.0	39	92.3	69	52.2	99	36.4	129	27.9	159	22.6
10	360.0	40	90.0	70	51.4	100	36.0	130	27.7	160	22.5
11	327.3	41	87.8	71	50.7	101	35.6	131	27.5	161	22.4
12	300.0	42	85.7	72	50.0	102	35.3	132	27.3	162	22.2
13	276.9	43	83.7	73	49.3	103	35.0	133	27.1	163	22.1
14	257.1	44	81.8	74	48.6	104	34.6	134	26.9	164	22.0
15	240.0	45	80.0	75	48.0	105	34.3	135	26.7	165	21.8
16	225.0	46	78.3	76	47.4	106	34.0	136	26.5	166	21.7
17	211.8	47	76.6	77	46.8	107	33.6	137	26.3	167	21.6
18	200.0	48	75.0	78	46.2	108	33.3	138	26.1	168	21.4
19	189.5	49	73.5	79	45.6	109	33.0	139	25.9	169	21.3
20	180.0	50	72.0	80	45.0	110	32.7	140	25.7	170	21.2
21	171.4	51	70.6	81	44.4	111	32.4	141	25.5	171	21.1
22	163.6	52	69.2	82	43.9	112	32.1	142	25.4	172	20.9
23	156.5	53	67.9	83	43.4	113	31.9	143	25.2	173	20.8
24	150.0	54	66.7	84	42.9	114	31.6	144	25.0	174	20.7
25	144.0	55	65.5	85	42.4	115	31.3	145	24.8	175	20.6
26	138.5	56	64.3	86	41.9	116	31.0	146	24.7	176	20.5
27	133.3	57	63.2	87	41.4	117	30.8	147	24.5	177	20.3
28	128.6	58	62.1	88	40.9	118	30.5	148	24.3	178	20.2
29	124.1	59	61.0	89	40.4	119	30.3	149	24.2	179	20.1

Grams to Ounces Conversion

Grams	Ounces	Grams	Ounces	Grams	Ounces	Grams	Ounces	Grams	Ounces	Grams	Ounces
1	0.0353	21	0.7408	41	1.4462	81	2.8572	101	3.5627	121	4.2681
2	0.0705	22	0.7760	42	1.4815	82	2.8925	102	3.5979	122	4.3034
3	0.1058	23	0.8113	43	1.5168	83	2.9277	103	3.6332	123	4.3387
4	0.1411	24	0.8466	44	1.5521	84	2.9630	104	3.6685	124	4.3740
5	0.1764	25	0.8818	45	1.5873	85	2.9983	105	3.7038	125	4.4092
6	0.2116	26	0.9171	46	1.6226	86	3.0336	106	3.7390	126	4.4445
7	0.2469	27	0.9524	47	1.6579	87	3.0688	107	3.7743	127	4.4798
8	0.2822	28	0.9877	48	1.6932	88	3.1041	108	3.8096	128	4.5151
9	0.3175	29	1.0229	49	1.7284	89	3.1394	109	3.8449	129	4.5503
10	0.3527	30	1.0582	50	1.7637	90	3.1747	110	3.8801	130	4.5856
11	0.3880	31	1.0935	51	1.7990	91	3.2099	111	3.9154	131	4.6209
12	0.4233	32	1.1288	52	1.8342	92	3.2452	112	3.9507	132	4.6562
13	0.4586	33	1.1640	53	1.8695	93	3.2805	113	3.9860	133	4.6914
14	0.4938	34	1.1993	54	1.9048	94	3.3158	114	4.0212	134	4.7267
15	0.5291	35	1.2346	55	1.9401	95	3.3510	115	4.0565	135	4.7620
16	0.5644	36	1.2699	56	1.9753	96	3.3863	116	4.0918	136	4.7973
17	0.5997	37	1.3051	57	2.0106	97	3.4216	117	4.1271	137	4.8325
18	0.6349	38	1.3404	58	2.0459	98	3.4568	118	4.1623	138	4.8678
19	0.6702	39	1.3757	59	2.0812	99	3.4921	119	4.1976	139	4.9031
20	0.7055	40	1.4110	60	2.1164	100	3.5274	120	4.2329	140	4.9384

28.34952 grams = 1 ounce 453.5924 grams = 1 pound

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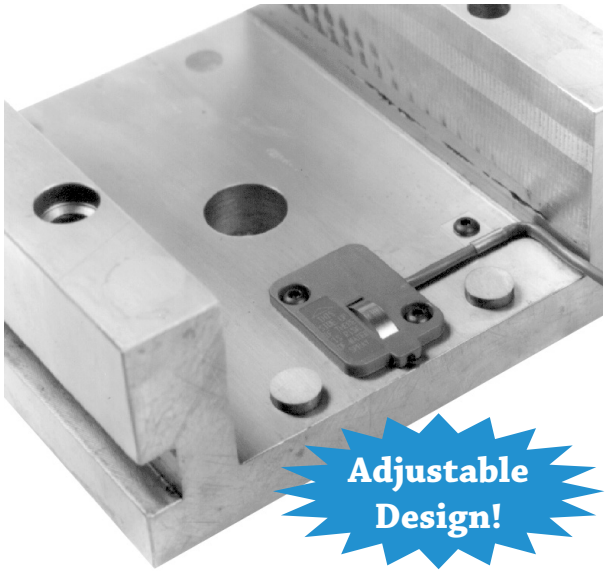
THINSWITCH



Verifies ejector plate return before closing mold. Mount inside ejector housing and wire to machine controls. Use for core slides or any place where space is limited.

- Prevents costly mold damage
- 3⁄16" thick
- Fits behind ejector plate
- Requires only 2 screw holes
- Very economical to install
- Over 10 million cycle life
- Adjustable operating point
- Electrical capacity at 240V 4 AMP inductive 5 AMP resistive
- SPDT switching
- 6' wire included- leads stripped & tinned

- .187" thick, same height as rest buttons
- Wire to machine controls to prevent mold closing before ejector plate has completely returned
- Use two in series in opposite corners of ejector housing of larger molds to ensure return of ejector plate
- Mounts inside ejector housing where it cannot be damaged
- Operating height adjustment between .187" and .250"

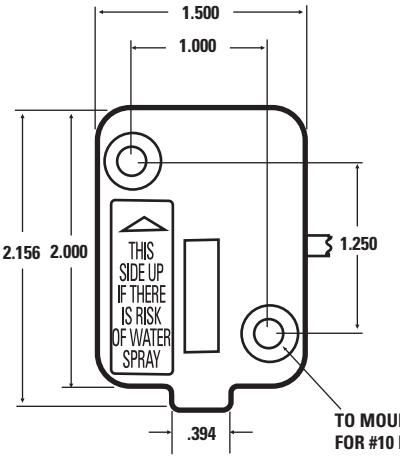
T222- for use up to 175°F (79.4°C)
HT291- for use up to 250°F (121°C)

Materials

Body – Fiberglass reinforced nylon
Spring – Stainless steel
Wire – 22 GA stranded, 3-conductor w/jacket
Screws – Hardened steel, black oxide finish
Back Cover – Polyester film
Max. Ambient Temperature – 175°F
Max. Voltage – 250
Electrical Specifications –
250 VAC 5 AMPS resistive
4 AMPS inductive
28 VDC (sea level) 5 AMPS resistive
4 AMPS inductive

Standard Temperature Thinswitch T222	
SP222A	Replacement Spring
CT222A	Replacement Cable Tab

High Temperature Thinswitch HT291



Limit Switch - Thinswitch®

Liquid Resistant

General Description

Smartflow® Thinswitch® Liquid-Resistant Limit Switch is designed to verify ejector plate return in areas where occasional water or oil spray is present. The Thinswitch helps prevent accidental mold close in injection molding applications by providing a position switch that is tied to the injection molding machine control. The liquid resistant switch uses the same mounting hole locations as the original Thinswitch. The Thinswitch has been tested for reliability over 10 million cycles without failure. Two switches can be used in series for larger molds to ensure the ejector plate return, preventing costly mold damage.

Features and Benefits

- Over 10 million cycle life
- 175°F (79.4°C) standard temperature rating
- 250°F (121°C) high temperature unit for higher temperature needs
- Adjustable actuation between .187" and .250" from the mold base
- 3⁄16" thick design fits snugly behind the ejector plate between the rest buttons
- Stripped and tinned 6 ft. wire leads
- Mounting screws and wire clips included

LIMIT SWITCH

US Patent 5,446,252
EU Patent 6,982,392

Specifications

Part Number/Operating Temperature

T222LR
Standard Model .....175°F max. (79.4°C max.)

HT291LR
High Temp Model .....250°F max. (121°C max.)

Switching..... SPDT

Electrical

250VAC .....5 AMPS resistive
4 AMPS inductive

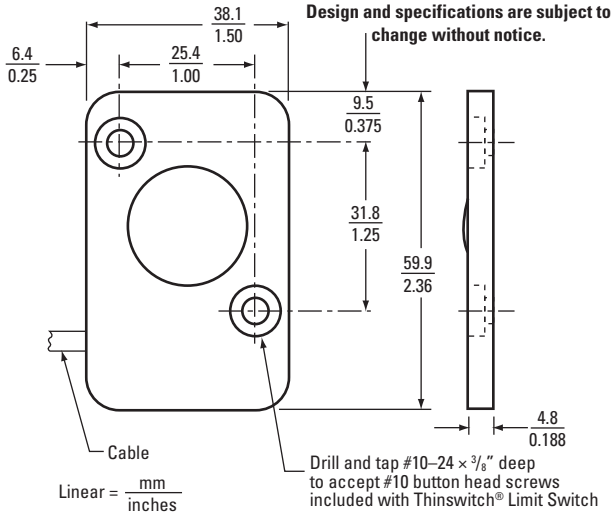
28VDC (sea level).....5 AMPS resistive
4 AMPS inductive

Materials

Body..... Fiberglass-reinforced nylon
Dome ..... Polyurethane
Back Cover..... Polyester film
Wire Leads ..... 22ga stranded, 3-conductor, shielded cable, 6 ft. (1.8m) long, ends stripped and tinned

Rated Current vs. Steel Temperature					
T222LR			HT291LR		
AMPS	°F	°C	AMPS	°F	°C
5.0	85	29.4	5.0	100	37.7
4.0	120	49.0	4.5	155	68.3
3.0	155	68.3	4.0	210	98.8
2.0	175	79.4	3.5	250	121.1

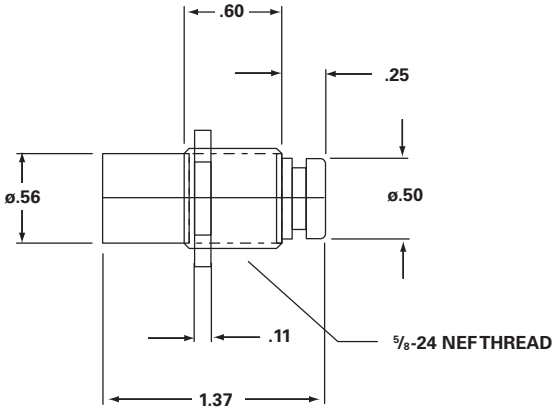
The Thinswitch® Limit Switch is designed for use in very low power mold protection control circuits. It is not intended to switch heavy loads in power applications.



Design and specifications are subject to change without notice.

Limit Switch - Versaswitch®

- Fits behind core
- Simply screw into mounting hole
- Very economical to install
- One million cycle mechanical life
- Adjustable operating point
- Electrical capacity at 240V, 3 AMP inductive, 5 AMP resistive
- SPDT switching
- 6′ wire included - leads stripped & tinned

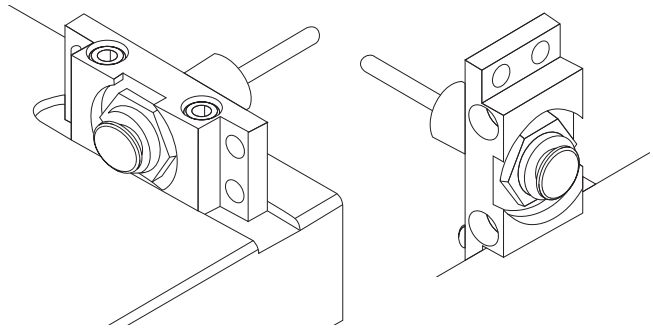


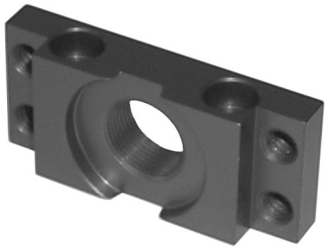
All dimensions in inches.

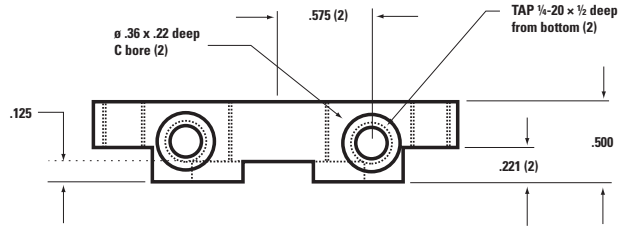
MODEL V222 MATERIALS

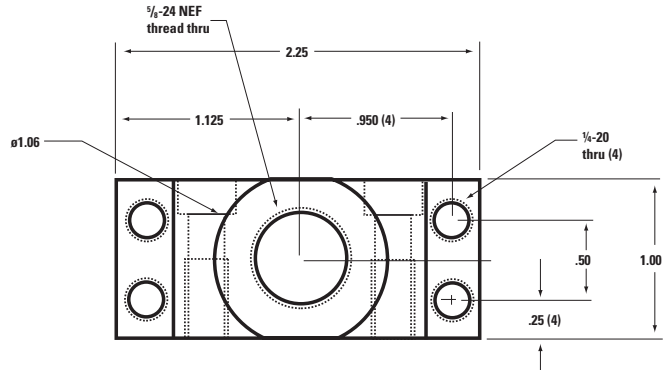
Body – Anodized aluminum
Plunger – Stainless steel
Locknut – Stainless steel
Wire – 22 ga stranded, 3 conductor with jacket

- Maximum ambient temperature – 180˚F
- Maximum voltage – 240 VAC
- Operating force – 1.6 kg./3.5 lb.
- Pretravel to operating point – .060″
- Over travel – .010″









ACCESSORIES	
P222	Twist lock electrical plug
BCR222	Electrical box, cover plate, and receptacle
VB222	Mounting bracket (red anodized aluminum)

SMARTLOCK

Mode of Operation

Installed in a slide, the plunger moves into a recess in the locking plate of the switch assembly, which is installed in the mold plate. The switch actuator, located in the bottom of the recess, closes the normally open switch contacts when the plunger is seated in the locking plate recess. When the breakaway force is applied to the slide, the lock is released, and the switch returns to its normal state.

Slide Retainer & Limit Switch

A revolutionary detent and safety switch. Slide position verification and prevention of mold damage result when the Smartlock slide retainer and limit switch is installed in a mold.

The Smartflow SMARTLOCK® slide retainer and limit switch is designed for injection molders to provide switching and slide retention in one unique package. The SMARTLOCK® locking function prevents premature slide movement during molded part ejection while the SPDT switch is simultaneously actuated.

The SMARTLOCK® slide retainer and limit switch has been tested for reliability over 10 million cycles without failure. Two or more switches may be used for larger molds, or molds with multiple slides. Slide position verification and prevention of mold damage results when the Smartlock slide retainer and limit switch is installed in a mold.

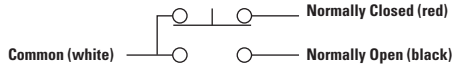
Features & Benefits

- Over 10 million cycle life provides long dependable service.
- 17–27 pounds holding force; adjustable for optimum operation
- 175°F (79.4°C) standard temperature rating allows installation into most molding applications
- 250°F (121°C) high temperature unit provides additional application flexibility
- Superior flush mount switch shielded from damage by mounting inside a protective milled pocket
- Stripped and tinned 6 ft. wire leads make the switch ready to install without modification
- Included mounting screws and wire clips help install the SMARTLOCK® switch neatly and easily

The SMARTLOCK® slide lock and limit switch provides a slide lock and SPDT switch in one unique package for use in molding applications to verify slide position and prevent mold damage. Install the plunger and switch assemblies into corresponding milled pockets in the slide and mold plate. In operation, the plunger moves into a recess in the locking plate, providing a lock with 25 lbs maximum breakaway force. (The breakaway force is adjustable by changing the plunger bore depth.) The switch actuator is located in the bottom of locking plate recess. When the plunger is seated in the locking plate, the normally open contacts are closed.
Specifications

Maximum Breakaway Force:
17–27 lbs. (8–12 kg)-user adjustable
Electrical:
250VAC, 28VDC (4 AMPS Inductive, 5 AMPS Resistive)
Operating Temperature:
SL222: 175˚F max. (79.4°C)
SL291: 250˚F max. (121°C)
Switching: SPDT
Materials

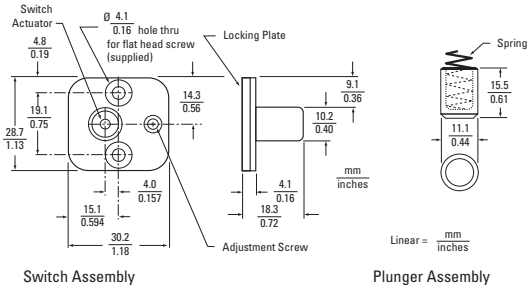
Schematic Diagram



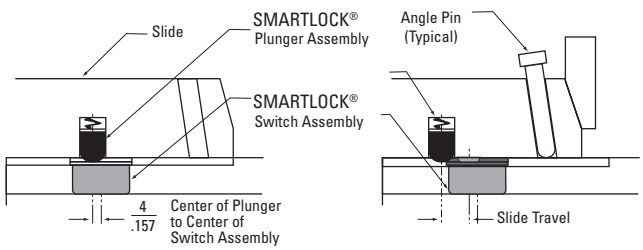
Body: Fiberglass-reinforced nylon
Locking Plate: Hardened steel
Plunger and Spring: Hardened steel
Wire Leads: 22ga stranded, 3-conductor, shielded cable, 6ft (1.8m) long, ends stripped and tinned

Parts Included
(1) Switch Assembly
(1) Plunger Assembly - Plunger - SLP222A
- Spring SLPS222
(2) 6–32 flat head switch mounting screws - SLFH222A
(2) 10–24 wire clamp mounting screws - 1024BHCSA
(2) Wire clamps
(1) Instruction sheet

SL222 Standard Smartlock® SL291 Hi-Temp Smartlock®



Dimensions



Sample Application

FasTie®

Quick Ejector Tie-In System

Description & Use

In an injection molding press, the FasTie® system quickly "ties-in" the mold ejector plate to the press ejection system, dramatically reducing mold change time. The greatest time savings are realized in presses where space is limited and the ejector system is difficult to tie in using solid knockout bars.

The FasTie® coupler may be permanently mounted to the press ejector plate. The quick-connect locking mechanism in the coupler snaps mechanically onto the mold-mounted pull stud during mold installation.

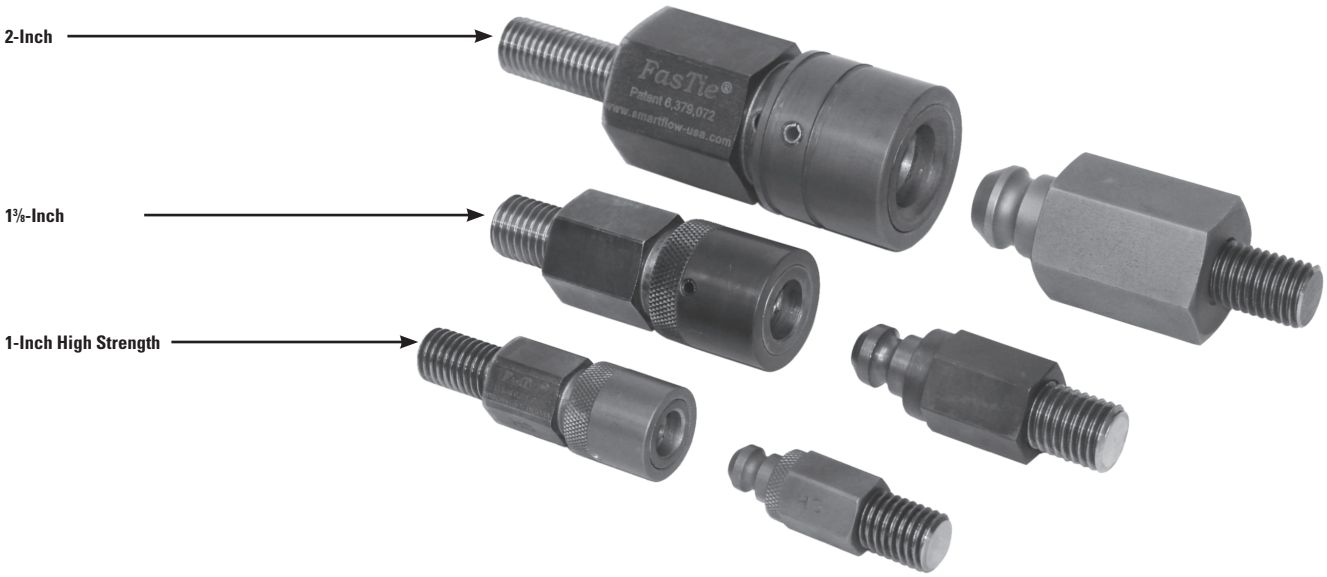
To release the ejectors, apply shop air to the coupler. The coupler opens to release the pull stud, disconnecting the press and tooling ejector plates. The coupler remains in the open position, ready for a new mold to be set.

For multiple ejector locations, an air manifold is recommended to release all couplers simultaneously. See the following catalog pages for installation examples.

The FasTie® couplers and pull studs are available in 3 sizes to suit various applications: 1", 1-3/8" and 2".

Features & Benefits

- FasTie® installs easily into existing tapped holes; no additional machining is required
- FasTie® reduces mold setting time by quickly uncoupling, plus there are no loose parts to stow
- FasTie® remains coupled during mold cycling for increased "tie-in" reliability and reduced wear
- SpeedBar® adjusts quickly without tools to the exact length required [±1/2" (12.7 mm) from nominal in .006" (.15 mm) increments]*
- SpeedBar® relieves molders from the time and trouble of machining ejector bars to fit different molds*



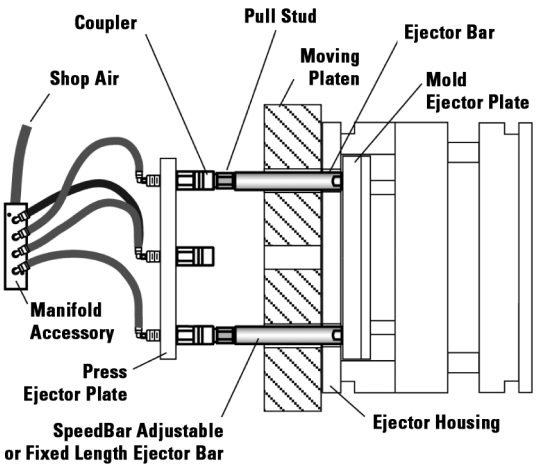
FasTie® Couplers U.S. Patent No. 6,379,072

FasTie® Pull Studs

Ideal for Center Knock-Out

* 1-inch only

Quick Ejector Tie-In System Installation Examples



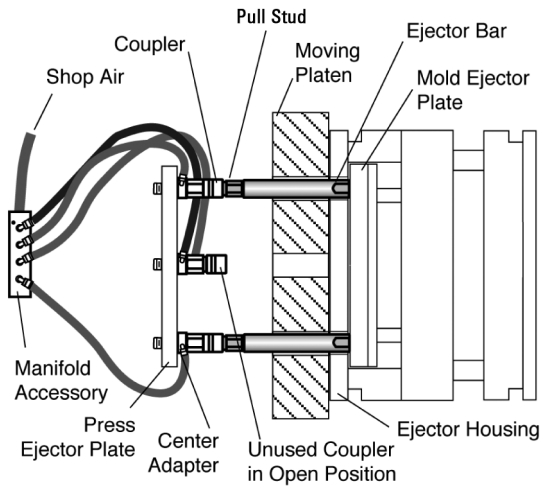
This setup is designed for custom molders who use a variety of injection molds with different ejector patterns and ejector housing thicknesses.

Typical Application - Couplers on Press Ejector Plate

Couplers are installed next to the press ejector plate. Pull studs are placed at the end of the mold-mounted ejector bars for easy removal. Molds are changed quickly without accessing the back of the press ejector plate. For example, a press with 4 ejector positions may be running molds using only the horizontal positions, but the next mold may need the 2 vertical ejector positions. Ejector housing shown is 1.062" thick. Air manifold supplies air to the end of each ejector bar for simultaneous coupler release.

Parts List

Qty	Part
2 or 4	FasTie Pull Stud
2 or 4	FasTie Coupler
2 or 4	Fixed Length Ejector Bars or SpeedBar® Adjustable Length Bars
1	Air Manifold with tubing



This setup is used where there is limited access to the back of the Press Ejector Plate. Custom molders using smaller presses will benefit from this application.

Couplers and Center Adapters on Press Ejector Plate

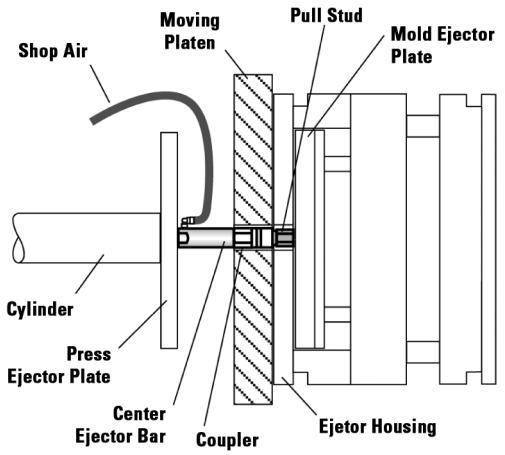
Couplers are installed next to the press ejector plate. Pull studs are placed at the end of the mold-mounted ejector bars for easy removal. Molds are changed quickly without accessing the back of the press
ejector plate.

For example, a press with 4 ejector positions may be running molds using only the horizontal positions, but the next mold may need the 2 vertical ejector positions. Ejector housing shown is 1.062" thick. Air manifold supplies air to the mold side of the press ejector plate with the use of adapters.

Parts List

Qty	Part
2 or 4	FasTie Pull Stud
2 or 4	FasTie Coupler
2 or 4	Center Adapters
2 or 4	Fixed Length Ejector Bars or SpeedBar® Adjustable Length Bars
1	Air Manifold with tubing

Quick Ejector Tie-In System Installation Examples



For small presses with a center ejector, replace the cylinder bolt with a Center Ejector Bar and FasTie coupler.

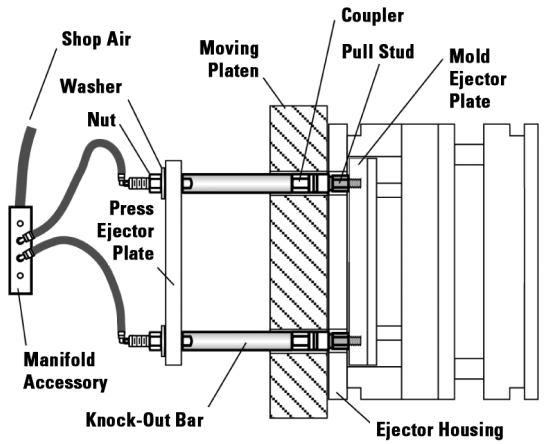
Coupler in Center Ejector Position

Center Ejector Bar and Coupler are installed into the press ejector plate, with the Coupler attached to the end. The pull stud is installed in the mold ejector plate. Molds are changed quickly without accessing the back of the press ejector plate. Ejector housing shown is 1.062" thick. Shop air is supplied to the side of the center adapter. No air manifold is needed. Fully-threaded Center Ejector Bar may be shortened to proper length on-site. In many small machines, there may not be room for an ejector bar.

Parts List

Qty	Part
1	FasTie Pull Stud
1	FasTie Coupler
1	Center Adapters

High Strength Couplers and Studs are recommended
for 1" applications.



This setup is designed for captive molders, or shops with tools using a standard thickness ejector housing.

Couplers at the End of Ejector Bars

Couplers are located at the end of the ejector bars mounted to the press ejector plate. Pull studs are mounted to each mold in storage. Ejector connection is made without changing ejector bars. Ejector housing shown is 1.062" thick. Air manifold supplies compressed air to the end of each ejector bar for simultaneous coupler release. Fixed length bars are finished on-site, cut to length and tapped with ½-13 female thread.

Parts List

Qty	Part
2 or 4	FasTie Pull Stud
2 or 4	FasTie Coupler
2 or 4	Fixed Length Ejector Bars or SpeedBar® Adjustable Length Bars
1	Air Manifold with tubing

Specifications

Maximum operating temp.....300°F (149°C)
Air pressure range.....80–100 psi
Pull stud material.....Hardened Steel (58–62 Rc)
Ejector bar and coupler material.....High Strength Steel
Threaded studs.....B7 Alloy or Comparable
Air manifold material.....Aluminum
Air tubing material.....⅛″OD Nylon

Press Requirements

	Coupler Size		
	1-inch	1-⅜-inch	2-inch
Platen thru hole min.	ø1.063″	ø1.45″	ø2.063″
	ø27 mm	ø36.8 mm	ø52.4 mm
Ejector plate thru hole min.	ø0.512″	ø0.641″	ø0.765″
	ø14 mm	ø16.5 mm	ø19.4 mm
Ejector force per coupler max.	2.5 tons	5.5 tons	7.5 tons

Recommended FasTie Size Per Press Size & Knockout Qty

	Knockout Quantity		
Press Tonnage	1 (Center)	2	4
0–250	1″HS	1″HS	1″HS
250–500	1-⅜″	1″HS or 1-⅜″	1″HS or 1-⅜″
500–750	2″	1-⅜″ or 2″	1-⅜″ or 2″
750–1000	2″	1-⅜″ or 2″	1-⅜″ or 2″
1000+	Do not use	2″	2″

For best results, use the largest FasTie that will fit into the press.

Accessories

Additional parts to aid installation and use:

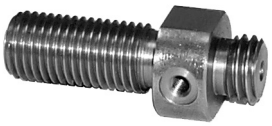
- SPEEDBAR Adjustable Length Ejector Bar*
  Changes length without tools ±1/2″ in increments of .006″. Air passes through the bar for air hook-up at the back of the press ejector plate.
- Fixed Length Ejector Bar
  Provides an air passage to the back of the press ejector plate. Several lengths are stocked with one blank end for on-site finishing.
- Center Ejector Bar and Center Adapter
  Provides an air passage in front of the press ejector plate for center knockout. Also for use with multiple knockouts.
- Air Manifold
  Splits single air supply into four circuits to aid air connection. Comes with 1/8″ diameter tubing and pneumatic connectors.

SpeedBar
U.S. Patent No. 6,315,544

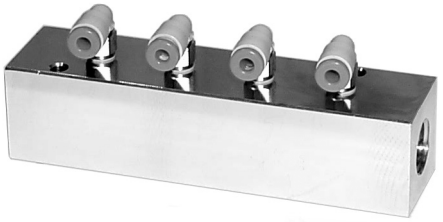
Fixed Length Ejector Bar

Center Ejector Bar

Center Adapter



Air Manifold



Contact DME for special thread sizes for Ejector Bars and Center Adapters

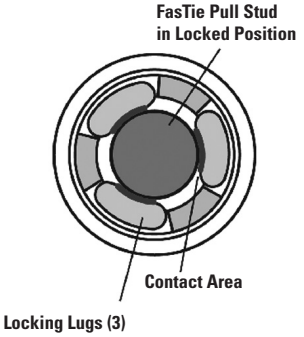
*1-inch, ½-13 threaded

FasTie® - Quick Ejector Tie-In System

1-Inch Couplers and Pull Studs

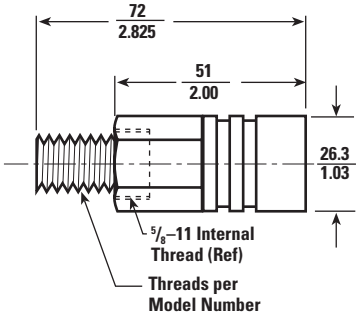
FasTie Coupler Design employs three locking lugs, to dramatically increase the load-bearing surface area of the components.

FasTies Coupler Bearing Surface Cross-Section

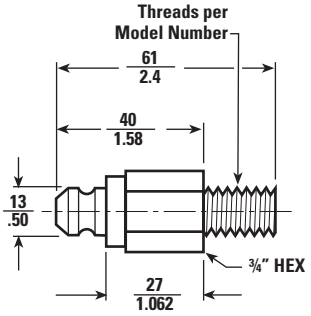


High Strength 1"
FasTie

Standard FasTie Couplers and Pull Studs



FasTie Coupler



FasTie Pull Stud

Model Number	Thread Size
FTF50	½-13
FTF63	⅝-11
FTFM12	M12 × 1.75
FTFM16	M16 × 2

FASTIE

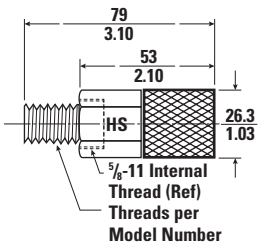
Model Number	Thread Size
FTM38	⅜-16
FTM50	½-13
FTM63	⅝-11
FTMM12	M12 × 1.75
FTMM16	M16 × 2
FTMM20	M20 × 2.5

High Strength FasTie Couplers and Pull Studs

Center knockout, multiple and high-speed ejection indicate the need for High Strength FasTie Couplers and Pull Studs. High Strength Couplers and Pull Studs are longer than the original parts (see above), and are not to be used in combination with Original Couplers and Pull Studs. All accessories are compatible with both styles of Couplers and Pull Studs.

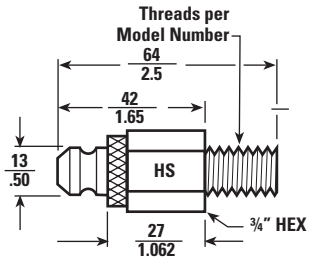
NOTE: Do not use HS FasTie Couplers in combination with standard version (above). Damage to couplers will result. Maximum installed center line misalignment of coupler and pull stud is +/- 3.5mm/0.138"

Model Number	Thread Size
FTMHS38	⅜-16
FTMHS50	½-13
FTMHS63	⅝-11
FTMHSM12	M12 × 1.75
FTMHSM16	M16 × 2
FTMHSM20	M20 × 2.5



FASTIE High Strength Coupler

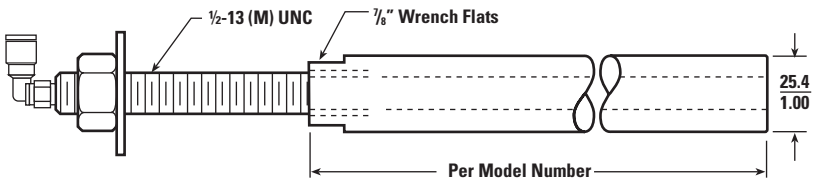
Model Number	Thread Size
FTFHS50	½-13
FTFHS63	⅝-11
FTFHSM12	M12 × 1.75
FTFHSM16	M16 × 2



FASTIE High Strength Pull Stud

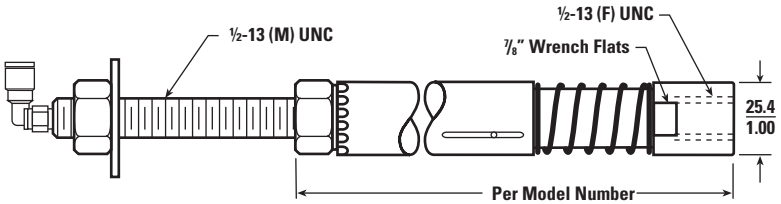
FasTie 1-Inch Accessories

Fixed Length Ejector Bar ½-13 threads



Model Number	Length
FTBB50-8	8″
FTBB50-10	10″
FTBB50-12	12″
FTBB50-14	14″

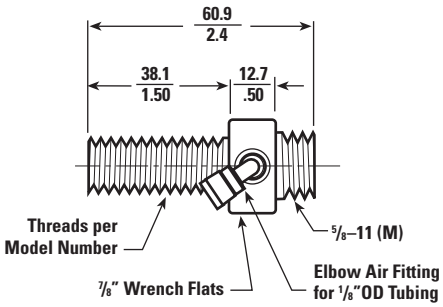
SPEEDBAR Adjustable Ejector Bar ½-13 threads
Adjusts +/- 1/2" from base height



Model Number	Length
SBAB50-6	6″
SBAB50-7	7″
SBAB50-8	8″
SBAB50-9	9″
SBAB50-10	10″
SBAB50-11	11″
SBAB50-12	12″
SBAB50-13	13″
SBAB50-14	14″

Center Adapter

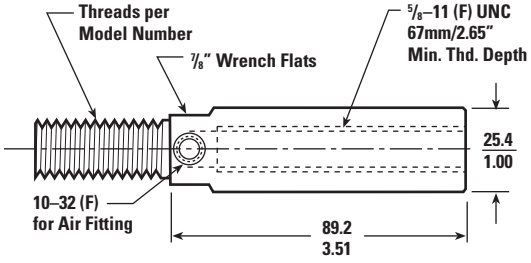
FASTIE



Model Number	Thread Size
FTCA63	⅝-11″
FTCAM16	M16 × 2
FTCAM20	M20 × 2.5

Air Handling Parts	
FTAM100	Air Manifold Assembly
FTPF2	Pneumatic Fitting 90° Elbow, 10–32 × ⅛″ OD tube
FTT125	Tubing ⅛"OD, nylon

Center Bar (use with FTFHS-63 only)



Model Number	Thread Size
FTCA63-63	⅝-11
FTCAM16-63	M16 × 2

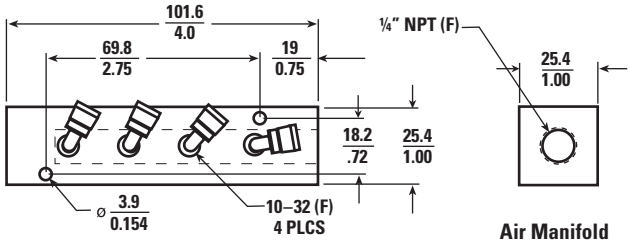
Call DME for a quote on thread sizes not shown

FTAM100

Includes:

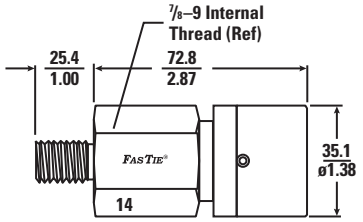
- Manifold
- (4) 1⁄8″ elbow pneumatic fittings
- (4) ø1⁄8″ × 4ft tubing

Linear = $\frac{\text{mm}}{\text{inch}}$ (TYP)



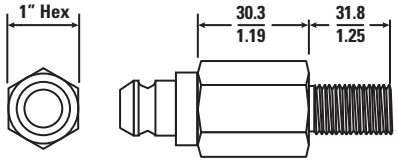
FasTie® 1-3⁄8-Inch Components

1-3⁄8″ FasTie Coupler



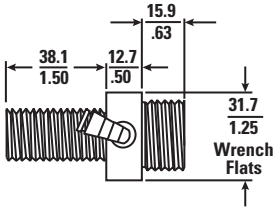
Model Number	Thread Size
FTF1.4-63	5⁄8-11
FTF1.4-75	3⁄4-10
FTF1.4-M16	M16 × 2
FTF1.4-M20	M20 × 2.5

1-3⁄8″ FasTie Pull Stud



Model Number	Thread Size
FTM1.4-63	5⁄8-11
FTM1.4-75	3⁄4-10
FTM1.4-M16	M16 × 2
FTM1.4-M20	M20 × 2.5

1-3⁄8″ Center Adapter

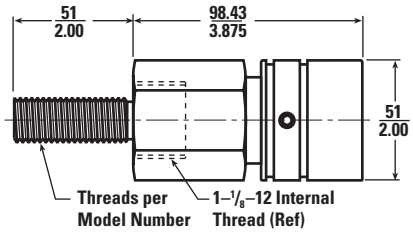


Model Number	Thread Size
FTCA1.4-75	3⁄4-10
FTCA1.4-M16	M16 × 2
FTCA1.4-M20	M20 × 2.5

Maximum installed center line misalignment of coupler and pull stud is +/- 5mm/0.197"

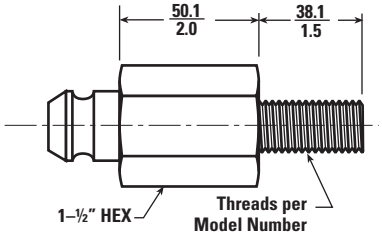
FasTie 2-Inch Components

FasTie Coupler



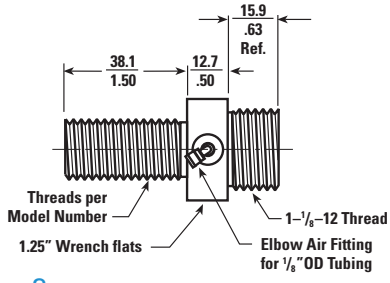
Model Number	Thread Size
FTF2-63	5⁄8-11
FTF2-75	3⁄4-10

2″ FasTie Pull Stud



Model Number	Thread Size
FTM2-63	5⁄8-11
FTM2-75	3⁄4-10
FTM2M16	M16 × 2
FTM2M24	M24 × 2.5

2″ Center Adapter



Model Number	Thread Size
FTCA2-75	3⁄4-10
FTCA2M16	M16 × 2
FTCA2M20	M20 × 2.5

Maximum installed center line misalignment of coupler and pull stud is +/- 6mm/0.236"

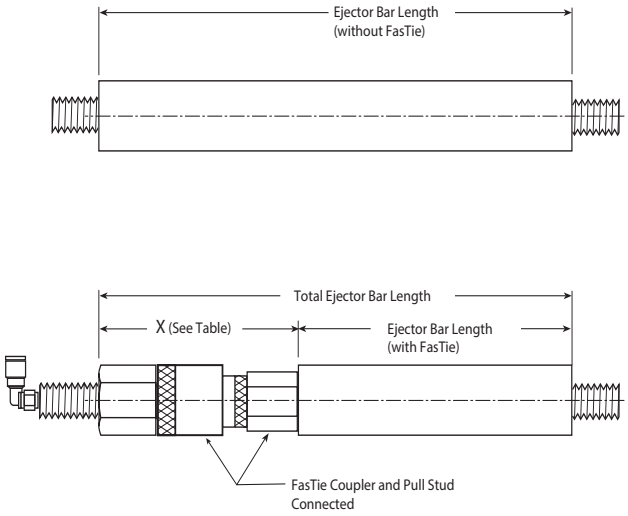
Linear = mm / inch (TYP)

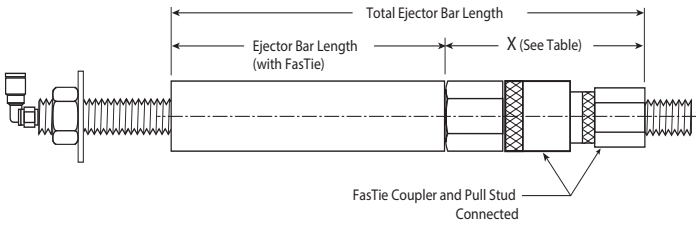
Ejector Bars for 1-3⁄8-inch and 2-inch FasTie's are special orders. Contact DME Industrial Supplies for information.

Determine Ejector Bar Length

- Determine length of Solid Ejector Bar
- Select Connected FasTie length from table
- Subtract Connected FasTie length from Solid Ejector Bar length
- Subtract Center Adapter length if necessary
- Result is FasTie Ejector Bar length

Connected FasTie Lengths		
Description	**Part Numbers**	**"X" Length**
Standard 1" FasTie	FTF-xx and FTM-xx	3.062"/77.8mm
High Strength1" FasTie	FTFHS-xx and FTMHS-xx	3.162"/80.3mm
1⅜" FasTie	FTF14-xx and FTM 14-xx	4.300"/109.2mm
2" FasTie	FTF2-xx and FTM2-xx	5.875"/149.2mm

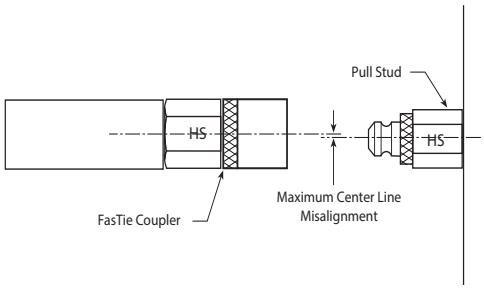




Maximum Installed Misalignment (reference)

Maximum center line misalignment per coupler size:

1" HS	+/- 3.5mm (+/- .138")
1-3/8"	+/- 5mm (+/- .197")
2"	+/- 6mm (+/- .236")



SmartCaps™

Mold Status Identification Markers

"Now our molds tell us what needs to happen. The mold doesn't sit, waiting for someone to find out if it needs work. And we never hang a mold until it's ready. It's so simple."

– Excelerated Mold Group

SMARTCAPS

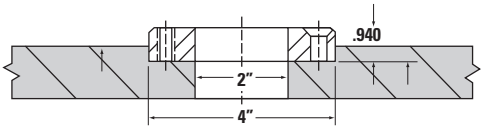
- Smart Caps snap on or off your mold locating rings quickly
- Indicates at a glance – even 50 feet away – the status of your molds
- Holds a condition note or work order safely under the Smart Cap.
- Three color – coded status caps available:

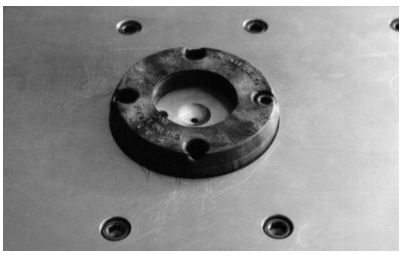
  GREEN — Ready to mold
  RED — Mold needs work
  YELLOW — Mold needs preventive maintenance before storage

Part Number	Description
SCG	Green "Ready to Mold"
SCR	Red "Needs Work"
SCY	Yellow "P.M. Required"

Polycarbonate Locating Rings

- Made of engineering grade materials; 30% fiber-filled, flame-retardant Polycarbonate
  - Tensile strength – 16,500 PSI @ 73°
  - Flex strength – 23,000 PSI
  - Compressive strength – 21,000 PSI
  - Shear strength – 9,500 PSI
- 2 Aluminum inserts for 5/16" cap screws
- Reduces platen damage and nozzle band contact
- Form fits to worn platens
- Speeds setup, easy to clean
- Materials do not stick, "PEEL RIGHT OFF"!
- Prevents electrical shorts
- Replaces standard 6501 & 6501 LN locators
- Withstands 428°F continuous temperatures
- Mounting hole pattern fits DME or National
- Low prices!
- High quality!





LOCATING RINGS

Part Number	Description
P-6501	Polycarbonate Locating Ring

Plate Puller

Part Number	Description	Wt. of Plate
PP100K	Male and Female Plate Puller with Spring	50 lbs.
PP200K	Male and Female Plate Puller with Spring	100 lbs.
PP300K	Male and Female Plate Puller with Spring	150 lbs.

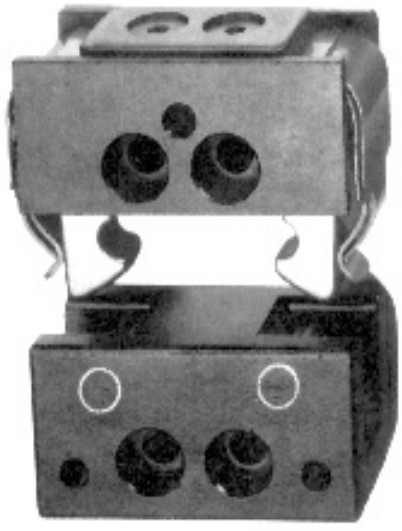
Part Number	Description	Wt. of Plate
PPS100	Replacement Spring	50 lbs.
PPS200	Replacement Spring	100 lbs.
PPS300	Replacement Spring	150 lbs.

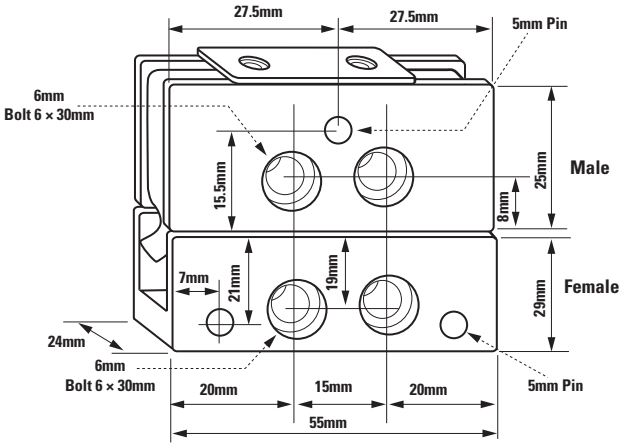
OBSOLETE

PPS300
Needed for
PP300K

PPS200
Needed for PP200K

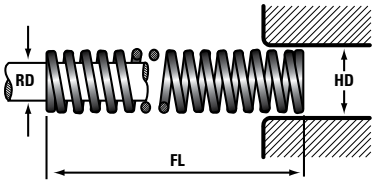
* Plate Puller is 55mm wide
– with 1 set of springs it is 60mm wide
– with 2 sets of springs it is 63mm wide
– with 3 sets of springs it is 66mm wide





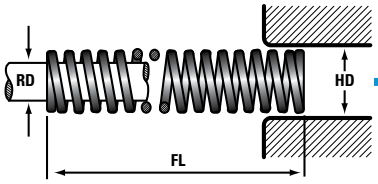
Danly Springs

Light Duty - Green



DANLY SPRINGS GREEN

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
3/8	3/16	3/4	**9-0603-11**	9.0	17	0.19	20	0.23	27	0.30	34	0.38
		1	**9-0604-11**	6.3	16	0.25	19	0.30	25	0.40	32	0.50
		1 1/4	**9-0605-11**	5.0	16	0.31	19	0.38	25	0.50	32	0.63
		1 1/2	**9-0606-11**	4.2	16	0.37	19	0.45	25	0.60	32	0.77
		1 3/4	**9-0607-11**	3.6	16	0.43	19	0.52	25	0.69	32	0.89
		2	**9-0608-11**	3.1	15	0.50	18	0.60	25	0.80	32	1.02
		2 1/2	**9-0610-11**	2.6	16	0.63	19	0.76	26	1.01	34	1.30
		3	**9-0612-11**	2.1	16	0.75	19	0.90	25	1.20	33	1.56
		12	**9-0648-11**	0.5	15	3.00	18	3.60	24	4.80	31	6.24
1/2	9/32	3/4	**9-0803-11**	15.0	28	0.19	34	0.23	45	0.30	59	0.39
		1	**9-0804-11**	10.9	27	0.25	32	0.30	43	0.40	55	0.50
		1 1/4	**9-0805-11**	9.4	30	0.31	36	0.38	47	0.50	65	0.69
		1 1/2	**9-0806-11**	7.8	29	0.37	35	0.45	47	0.60	68	0.87
		1 3/4	**9-0807-11**	6.6	29	0.43	34	0.52	46	0.69	67	1.02
		2	**9-0808-11**	5.8	29	0.50	35	0.60	47	0.80	67	1.15
		2 1/2	**9-0810-11**	4.7	29	0.63	35	0.76	47	1.01	69	1.46
		3	**9-0812-11**	3.6	27	0.75	32	0.90	43	1.20	61	1.70
		3 1/2	**9-0814-11**	3.1	27	0.88	32	1.05	43	1.40	62	2.00
		12	**9-0848-11**	0.8	25	3.00	30	3.60	40	4.80	50	6.30
5/8	11/32	3/4	**9-1003-11**	24.0	46	0.19	55	0.23	72	0.30	86	0.36
		1	**9-1004-11**	18.0	44	0.25	53	0.30	71	0.40	90	0.50
		1 1/4	**9-1005-11**	14.0	43	0.31	53	0.38	70	0.50	91	0.65
		1 1/2	**9-1006-11**	12.0	45	0.37	54	0.45	72	0.60	97	0.81
		1 3/4	**9-1007-11**	10.0	43	0.43	52	0.52	69	0.69	97	0.97
		2	**9-1008-11**	9.3	47	0.50	56	0.60	75	0.80	107	1.16
		2 1/2	**9-1010-11**	7.2	45	0.63	54	0.76	73	1.01	104	1.44
		3	**9-1012-11**	5.9	44	0.75	53	0.90	71	1.20	103	1.74
		3 1/2	**9-1014-11**	5.3	46	0.88	56	1.05	74	1.40	111	2.10
		4	**9-1016-11**	4.7	47	1.00	57	1.20	75	1.61	114	2.42
		12	**9-1048-11**	1.5	45	3.00	54	3.60	72	4.80	109	7.26
3/4	3/8	3/4	**9-1203-11**	42.5	80	0.19	96	0.23	128	0.30	153	0.36
		1	**9-1204-11**	32.0	79	0.25	94	0.30	126	0.40	158	0.49
		1 1/4	**9-1205-11**	24.4	77	0.31	92	0.38	123	0.50	152	0.63
		1 1/2	**9-1206-11**	19.3	72	0.37	87	0.45	115	0.60	144	0.74
		1 3/4	**9-1207-11**	16.2	70	0.43	84	0.52	112	0.69	142	0.87
		2	**9-1208-11**	14.2	71	0.50	86	0.60	114	0.80	144	1.02
		2 1/2	**9-1210-11**	11.0	69	0.63	83	0.76	111	1.01	139	1.27
		3	**9-1212-11**	9.2	69	0.75	83	0.90	110	1.20	142	1.55
		3 1/2	**9-1214-11**	7.7	67	0.88	81	1.05	108	1.40	137	1.79
		4	**9-1216-11**	6.8	68	1.00	82	1.20	109	1.61	140	2.07



Danly Springs

Light Duty - Green

DANLY SPRINGS GREEN

Hole Dia. (in) HD	Rod Dia. (in) RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
¾	⅜	4½	**9-1218-11**	6.0	67	1.12	81	1.35	108	1.80	140	2.34
		5	**9-1220-11**	5.3	66	1.25	80	1.50	106	2.00	137	2.58
		5½	**9-1222-11**	4.9	67	1.38	80	1.65	107	2.20	139	2.86
		6	**9-1224-11**	4.5	67	1.50	81	1.80	108	2.39	143	3.17
		12	**9-1248-11**	2.2	65	3.00	78	3.60	104	4.80	135	6.24
1	½	1	**9-1604-11**	61.2	151	0.25	181	0.30	241	0.40	296	0.48
		1¼	**9-1605-11**	46.2	146	0.31	175	0.38	233	0.50	284	0.62
		1½	**9-1606-11**	37.0	138	0.37	166	0.45	221	0.60	277	0.75
		1¾	**9-1607-11**	30.6	133	0.43	159	0.52	212	0.69	268	0.87
		2	**9-1608-11**	26.5	133	0.50	160	0.60	213	0.80	269	1.01
		2½	**9-1610-11**	20.4	129	0.63	154	0.76	206	1.01	258	1.25
		3	**9-1612-11**	16.8	126	0.75	151	0.90	201	1.20	256	1.50
		3½	**9-1614-11**	14.1	124	0.88	148	1.05	198	1.40	251	1.75
		4	**9-1616-11**	12.1	121	1.00	146	1.20	194	1.61	247	2.01
		4½	**9-1618-11**	10.7	120	1.12	144	1.35	192	1.80	244	2.25
		5	**9-1620-11**	9.6	120	1.25	144	1.50	192	2.00	244	2.52
		5½	**9-1622-11**	8.7	120	1.38	144	1.65	192	2.20	247	2.80
		6	**9-1624-11**	8.0	120	1.50	144	1.80	191	2.39	250	3.10
		7	**9-1628-11**	6.9	121	1.75	145	2.10	193	2.80	252	3.63
		8	**9-1632-11**	6.0	120	2.00	144	2.40	192	3.20	253	4.17
		12	**9-1648-11**	4.0	120	3.00	144	3.60	192	4.80	254	6.22
1¼	⅝	1½	**9-2006-11**	57.9	217	0.37	260	0.45	346	0.60	413	0.71
		1¾	**9-2007-11**	47.5	206	0.43	247	0.52	329	0.69	397	0.84
		2	**9-2008-11**	40.7	204	0.50	245	0.60	327	0.80	393	0.96
		2½	**9-2010-11**	31.4	198	0.63	237	0.76	316	1.01	382	1.22
		3	**9-2012-11**	26.3	197	0.75	236	0.90	315	1.20	395	1.50
		3½	**9-2014-11**	22.2	194	0.88	233	1.05	311	1.40	391	1.76
		4	**9-2016-11**	19.2	193	1.00	231	1.20	308	1.61	388	2.02
		4½	**9-2018-11**	16.9	190	1.12	228	1.35	303	1.80	386	2.28
		5	**9-2020-11**	15.0	188	1.25	225	1.50	300	2.00	379	2.53
		5½	**9-2022-11**	13.5	186	1.38	223	1.65	298	2.20	374	2.77
		6	**9-2024-11**	12.3	184	1.50	221	1.80	294	2.39	373	3.03
		7	**9-2028-11**	10.4	182	1.75	219	2.10	292	2.80	369	3.53
		8	**9-2032-11**	9.1	182	2.00	218	2.40	291	3.20	366	4.04
		10	**9-2040-11**	7.2	180	2.50	216	3.00	288	4.00	360	5.03
		12	**9-2048-11**	5.9	177	3.00	213	3.60	283	4.80	357	6.03

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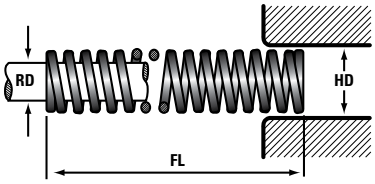
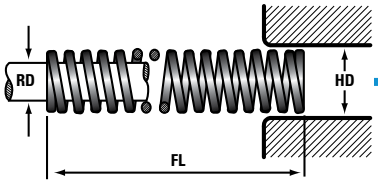
Danly Springs

Light Duty - Green



DANLY SPRINGS GREEN

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
1½	¾	2	**9-2408-11**	60.3	303	0.50	363	0.60	484	0.80	584	0.97
		2½	**9-2410-11**	45.8	289	0.63	346	0.76	462	1.01	558	1.22
		3	**9-2412-11**	37.5	281	0.75	337	0.90	449	1.20	558	1.49
		3½	**9-2414-11**	31.8	279	0.88	334	1.05	446	1.40	559	1.76
		4	**9-2416-11**	27.3	274	1.00	329	1.20	439	1.61	547	2.01
		4½	**9-2418-11**	24.1	270	1.12	324	1.35	433	1.80	549	2.28
		5	**9-2420-11**	21.6	270	1.25	324	1.50	432	2.00	551	2.55
		5½	**9-2422-11**	19.4	267	1.38	321	1.65	428	2.20	543	2.80
		6	**9-2424-11**	17.6	263	1.50	316	1.80	421	2.39	537	3.05
		7	**9-2428-11**	15.0	263	1.75	315	2.10	420	2.80	534	3.57
		8	**9-2432-11**	12.9	258	2.00	309	2.40	412	3.20	526	4.07
		10	**9-2440-11**	10.3	258	2.50	309	3.00	412	4.00	524	5.11
		12	**9-2448-11**	8.4	252	3.00	303	3.60	403	4.80	516	6.10
2	1	2½	**9-3210-11**	89.9	566	0.63	680	0.76	906	1.01	1096	1.22
		3	**9-3212-11**	72.0	539	0.75	646	0.90	862	1.20	1066	1.48
		3½	**9-3214-11**	60.2	527	0.88	633	1.05	844	1.40	1046	1.74
		4	**9-3216-11**	51.2	514	1.00	617	1.20	822	1.61	1014	1.98
		4½	**9-3218-11**	44.9	504	1.12	605	1.35	806	1.80	1006	2.24
		5	**9-3220-11**	40.0	500	1.25	600	1.50	800	2.00	1000	2.50
		5½	**9-3222-11**	36.0	496	1.38	595	1.65	794	2.20	994	2.76
		6	**9-3224-11**	32.8	491	1.50	589	1.80	785	2.39	990	3.02
		7	**9-3228-11**	27.8	487	1.75	584	2.10	779	2.80	983	3.54
		8	**9-3232-11**	23.8	476	2.00	571	2.40	761	3.20	951	4.00
		10	**9-3240-11**	18.8	470	2.50	564	3.00	752	4.00	950	5.04
		12	**9-3248-11**	15.5	465	3.00	558	3.60	744	4.80	940	6.05
2½	1½	3	**9-4012-11**	110.0	823	0.75	987	0.90	1317	1.20	1569	1.43
		3½	**9-4014-11**	89.9	788	0.88	945	1.05	1260	1.40	1512	1.68
		4	**9-4016-11**	76.2	765	1.00	918	1.20	1224	1.61	1473	1.93
		4½	**9-4018-11**	66.0	741	1.12	889	1.35	1185	1.80	1440	2.18
		5	**9-4020-11**	58.8	735	1.25	882	1.50	1176	2.00	1442	2.45
		6	**9-4024-11**	47.6	712	1.50	855	1.80	1139	2.39	1406	2.95
		7	**9-4028-11**	40.0	701	1.75	841	2.10	1121	2.80	1380	3.45
		8	**9-4032-11**	34.4	687	2.00	825	2.40	1100	3.20	1362	3.96
		10	**9-4040-11**	26.7	668	2.50	801	3.00	1068	4.00	1316	4.92
		12	**9-4048-11**	22.0	660	3.00	793	3.60	1057	4.80	1304	5.92



Danly Springs

Medium Duty - Blue

DANLY SPRINGS BLUE

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
3/8	3/16	3/4	**9-0603-21**	13.0	25	0.19	30	0.23	36	0.28	39	0.30
		1	**9-0604-21**	9.6	24	0.25	29	0.30	36	0.37	41	0.43
		1 1/4	**9-0605-21**	8.0	25	0.31	30	0.38	38	0.47	44	0.55
		1 1/2	**9-0606-21**	6.7	25	0.37	30	0.45	38	0.56	44	0.66
		1 3/4	**9-0607-21**	5.6	24	0.43	29	0.52	36	0.65	43	0.77
		2	**9-0608-21**	4.9	25	0.50	30	0.60	37	0.75	43	0.88
		2 1/2	**9-0610-21**	3.9	24	0.63	29	0.76	37	0.94	43	1.11
		3	**9-0612-21**	3.3	24	0.75	29	0.90	36	1.12	46	1.38
		12	**9-0648-21**	0.8	23	3.00	27	3.60	34	4.50	43	5.40
1/2	9/32	3/4	**9-0803-21**	21.0	39	0.19	47	0.23	59	0.28	63	0.30
		1	**9-0804-21**	16.5	41	0.25	49	0.30	61	0.37	82	0.50
		1 1/4	**9-0805-21**	12.9	41	0.31	49	0.38	61	0.47	82	0.63
		1 1/2	**9-0806-21**	10.9	41	0.37	49	0.45	61	0.56	86	0.78
		1 3/4	**9-0807-21**	9.2	40	0.43	48	0.52	60	0.65	84	0.91
		2	**9-0808-21**	8.0	40	0.50	48	0.60	60	0.75	84	1.05
		2 1/2	**9-0810-21**	6.3	40	0.63	48	0.76	60	0.94	82	1.32
		3	**9-0812-21**	5.0	37	0.75	45	0.90	56	1.12	77	1.54
		3 1/2	**9-0814-21**	4.3	37	0.88	45	1.05	56	1.31	77	1.81
		12	**9-0848-21**	3.7	37	1.00	44	1.20	56	1.50	78	2.11
5/8	11/32	3/4	**9-1003-21**	44.0	84	0.19	101	0.23	123	0.28	141	0.32
		1	**9-1004-21**	31.8	78	0.25	94	0.30	117	0.37	134	0.42
		1 1/4	**9-1005-21**	24.0	74	0.31	91	0.38	113	0.47	127	0.53
		1 1/2	**9-1006-21**	20.1	75	0.37	90	0.45	113	0.56	131	0.65
		1 3/4	**9-1007-21**	17.4	75	0.43	90	0.52	113	0.65	141	0.81
		2	**9-1008-21**	15.4	77	0.50	93	0.60	116	0.75	142	0.92
		2 1/2	**9-1010-21**	12.0	76	0.63	91	0.76	113	0.94	143	1.19
		3	**9-1012-21**	10.1	76	0.75	91	0.90	113	1.12	144	1.43
		3 1/2	**9-1014-21**	8.7	76	0.88	91	1.05	114	1.31	151	1.73
		4	**9-1016-21**	7.6	76	1.00	92	1.20	114	1.51	154	2.02
		12	**9-1048-21**	2.4	71	3.00	85	3.60	106	4.50	144	6.00
3/4	3/8	3/4	**9-1203-21**	68.5	128	0.19	154	0.23	193	0.28	199	0.29
		1	**9-1204-21**	51.5	127	0.25	152	0.30	190	0.37	208	0.40
		1 1/4	**9-1205-21**	38.9	123	0.31	147	0.38	184	0.47	198	0.51
		1 1/2	**9-1206-21**	31.3	117	0.37	140	0.45	176	0.56	192	0.61
		1 3/4	**9-1207-21**	25.8	112	0.43	134	0.52	168	0.65	182	0.71
		2	**9-1208-21**	22.2	111	0.50	134	0.60	167	0.75	180	0.81
		2 1/2	**9-1210-21**	17.3	109	0.63	131	0.76	163	0.94	177	1.02
		3	**9-1212-21**	14.1	105	0.75	127	0.90	158	1.12	173	1.22
		3 1/2	**9-1214-21**	12.2	107	0.88	128	1.05	160	1.31	178	1.46
		4	**9-1216-21**	10.6	106	1.00	128	1.20	160	1.51	179	1.68

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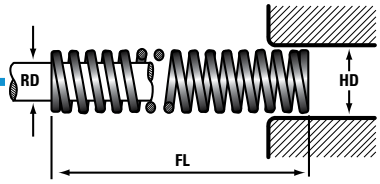
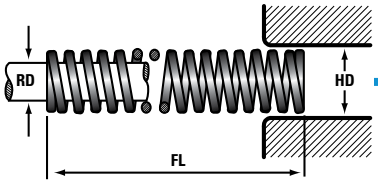
Danly Springs

Medium Duty - Blue



DANLY SPRINGS BLUE

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for				Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Long Life (20% of FL)		Avg. Life (25% of FL)					
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
¾	⅜	4½	**9-1218-21**	9.3	105	1.13	126	1.36	158	1.70	175	1.88
		5	**9-1220-21**	8.3	104	1.25	125	1.50	156	1.88	175	2.09
		5½	**9-1222-21**	7.5	103	1.37	123	1.64	154	2.05	174	2.30
		6	**9-1224-21**	6.9	103	1.50	124	1.80	155	2.24	173	2.52
		12	**9-1248-21**	3.5	104	3.00	125	3.60	156	4.50	180	5.21
1	½	1	**9-1604-21**	94.9	234	0.25	280	0.30	350	0.37	371	0.39
		1¼	**9-1605-21**	71.2	224	0.31	269	0.38	336	0.47	357	0.50
		1½	**9-1606-21**	56.3	211	0.37	253	0.45	316	0.56	338	0.60
		1¾	**9-1607-21**	47.5	206	0.43	247	0.52	309	0.65	341	0.72
		2	**9-1608-21**	41.0	206	0.50	247	0.60	309	0.75	344	0.84
		2½	**9-1610-21**	31.4	198	0.63	237	0.76	297	0.94	327	1.04
		3	**9-1612-21**	25.8	193	0.75	232	0.90	289	1.12	325	1.26
		3½	**9-1614-21**	21.6	189	0.88	227	1.05	284	1.31	317	1.46
		4	**9-1616-21**	18.8	189	1.00	226	1.20	283	1.51	316	1.68
		4½	**9-1618-21**	16.7	189	1.13	227	1.36	284	1.70	320	1.92
		5	**9-1620-21**	15.0	188	1.25	225	1.50	281	1.88	320	2.14
		5½	**9-1622-21**	13.5	185	1.37	222	1.64	277	2.05	319	2.36
		6	**9-1624-21**	12.4	186	1.50	223	1.80	278	2.24	319	2.58
		7	**9-1628-21**	10.5	184	1.75	221	2.10	276	2.63	314	3.00
		8	**9-1632-21**	9.1	182	2.00	218	2.40	273	3.00	312	3.42
		12	**9-1648-21**	6.0	180	3.00	216	3.60	270	4.50	305	5.11
1¼	⅝	1½	**9-2006-21**	94.8	355	0.37	425	0.45	532	0.56	569	0.60
		1¾	**9-2007-21**	77.9	337	0.43	405	0.52	506	0.65	550	0.71
		2	**9-2008-21**	66.3	333	0.50	399	0.60	499	0.75	539	0.81
		2½	**9-2010-21**	50.1	316	0.63	379	0.76	473	0.94	503	1.00
		3	**9-2012-21**	40.5	303	0.75	364	0.90	454	1.12	490	1.21
		3½	**9-2014-21**	34.2	300	0.88	360	1.05	449	1.31	486	1.42
		4	**9-2016-21**	29.6	297	1.00	357	1.20	446	1.51	484	1.63
		4½	**9-2018-21**	26.3	298	1.13	357	1.36	447	1.70	491	1.87
		5	**9-2020-21**	23.7	296	1.25	356	1.50	444	1.88	498	2.10
		5½	**9-2022-21**	21.4	293	1.37	351	1.64	439	2.05	495	2.31
		6	**9-2024-21**	19.5	292	1.50	350	1.80	438	2.24	493	2.53
		7	**9-2028-21**	16.6	291	1.75	349	2.10	436	2.63	489	2.95
		8	**9-2032-21**	14.4	288	2.00	345	2.40	432	3.00	486	3.38
		10	**9-2040-21**	11.4	285	2.50	342	3.00	428	3.75	483	4.23
		12	**9-2048-21**	9.5	285	3.00	342	3.60	428	4.50	484	5.10



Danly Springs

Medium Duty - Blue

DANLY SPRINGS BLUE

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
1½	¾	2	**9-2408-21**	97.4	489	0.50	587	0.60	733	0.75	762	0.78
		2½	**9-2410-21**	73.5	463	0.63	556	0.76	694	0.94	722	0.98
		3	**9-2412-21**	60.1	450	0.75	539	0.90	674	1.12	725	1.21
		3½	**9-2414-21**	50.1	439	0.88	527	1.05	658	1.31	704	1.40
		4	**9-2416-21**	43.4	436	1.00	523	1.20	654	1.51	707	1.63
		4½	**9-2418-21**	37.9	429	1.13	515	1.36	643	1.70	693	1.83
		5	**9-2420-21**	34.0	425	1.25	510	1.50	638	1.88	698	2.05
		5½	**9-2422-21**	30.6	419	1.37	502	1.64	628	2.05	687	2.25
		6	**9-2424-21**	27.9	417	1.50	501	1.80	626	2.24	691	2.47
		7	**9-2428-21**	23.7	415	1.75	498	2.10	623	2.63	687	2.89
		8	**9-2432-21**	20.6	412	2.00	494	2.40	617	3.00	683	3.32
		10	**9-2440-21**	16.5	413	2.50	495	3.00	619	3.75	693	4.21
		12	**9-2448-21**	13.6	408	3.00	490	3.60	612	4.50	682	5.03
2	1	2½	**9-3210-21**	121.0	762	0.63	915	0.76	1143	0.94	1193	0.99
		3	**9-3212-21**	95.6	715	0.75	858	0.90	1073	1.12	1130	1.18
		3½	**9-3214-21**	79.8	699	0.88	839	1.05	1049	1.31	1109	1.39
		4	**9-3216-21**	69.6	699	1.00	838	1.20	1048	1.51	1131	1.63
		4½	**9-3218-21**	61.2	693	1.13	831	1.36	1039	1.70	1134	1.85
		5	**9-3220-21**	54.0	675	1.25	810	1.50	1013	1.88	1105	2.05
		5½	**9-3222-21**	48.8	668	1.37	801	1.64	1001	2.05	1110	2.27
		6	**9-3224-21**	44.5	666	1.50	799	1.80	999	2.24	1112	2.50
		7	**9-3228-21**	37.9	664	1.75	797	2.10	996	2.63	1117	2.94
		8	**9-3232-21**	32.8	655	2.00	786	2.40	983	3.00	1103	3.36
		10	**9-3236-21**	29.1	656	2.25	787	2.70	984	3.38	1108	3.81
		12	**9-3240-21**	26.1	653	2.50	783	3.00	979	3.75	1111	4.26
2½	1½	3	**9-4012-21**	174.0	1304	0.75	1565	0.90	1956	1.12	2113	1.22
		3½	**9-4014-21**	143.0	1249	0.88	1499	1.05	1874	1.31	2056	1.44
		4	**9-4016-21**	121.0	1211	1.00	1453	1.20	1816	1.51	2016	1.66
		4½	**9-4018-21**	106.0	1195	1.13	1434	1.36	1793	1.70	2031	1.91
		5	**9-4020-21**	93.7	1172	1.25	1406	1.50	1758	1.88	2003	2.14
		5½	**9-4024-21**	75.9	1139	1.50	1366	1.80	1708	2.24	1963	2.59
		6	**9-4028-21**	63.8	1116	1.75	1339	2.10	1674	2.63	1935	3.04
		7	**9-4032-21**	55.0	1099	2.00	1319	2.40	1649	3.00	1916	3.48
		8	**9-4036-21**	48.8	1099	2.25	1318	2.70	1648	3.38	1944	3.98
		10	**9-4040-21**	43.9	1097	2.50	1316	3.00	1646	3.75	1964	4.48
		12	**9-4048-21**	36.2	1087	3.00	1305	3.60	1631	4.50	1966	5.42

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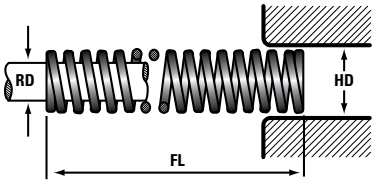
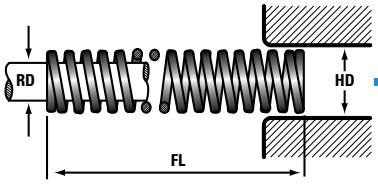
Danly Springs

Heavy Duty - Red



DANLY SPRINGS RED

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
3/8	3/16	3/4	**9-0603-26**	16.5	25	0.15	31	0.19	37	0.23	41	0.25
		1	**9-0604-26**	12.6	25	0.20	31	0.25	37	0.30	46	0.37
		1 1/4	**9-0605-26**	10.0	25	0.25	31	0.31	38	0.38	47	0.47
		1 1/2	**9-0606-26**	9.3	28	0.30	35	0.37	42	0.45	61	0.66
		1 3/4	**9-0607-26**	8.0	28	0.35	35	0.43	42	0.52	62	0.78
		2	**9-0608-26**	6.8	27	0.40	34	0.50	41	0.60	60	0.88
		2 1/2	**9-0610-26**	5.5	28	0.50	35	0.63	42	0.76	62	1.13
		3	**9-0612-26**	4.3	26	0.60	32	0.75	39	0.90	56	1.29
		12	**9-0648-26**	1.1	26	2.40	32	3.00	39	3.60	56	5.27
1/2	9/32	3/4	**9-0803-26**	31.0	47	0.15	58	0.19	70	0.23	96	0.31
		1	**9-0804-26**	23.6	46	0.20	58	0.25	70	0.30	103	0.44
		1 1/4	**9-0805-26**	18.8	47	0.25	59	0.31	71	0.38	106	0.56
		1 1/2	**9-0806-26**	15.5	46	0.30	58	0.37	70	0.45	107	0.69
		1 3/4	**9-0807-26**	13.3	46	0.35	58	0.43	69	0.52	109	0.82
		2	**9-0808-26**	11.4	46	0.40	57	0.50	69	0.60	107	0.94
		2 1/2	**9-0810-26**	8.7	44	0.50	55	0.63	66	0.76	99	1.14
		3	**9-0812-26**	7.7	46	0.60	58	0.75	69	0.90	114	1.47
		3 1/2	**9-0814-26**	6.2	43	0.70	54	0.88	65	1.05	102	1.64
		12	**9-0848-26**	1.8	43	2.40	53	3.00	64	3.60	101	5.71
5/8	11/32	3/4	**9-1003-26**	58.0	87	0.15	110	0.19	133	0.23	157	0.27
		1	**9-1004-26**	43.1	85	0.20	106	0.25	127	0.30	160	0.37
		1 1/4	**9-1005-26**	34.8	88	0.25	110	0.31	132	0.38	174	0.50
		1 1/2	**9-1006-26**	27.8	83	0.30	104	0.37	125	0.45	167	0.60
		1 3/4	**9-1007-26**	24.7	86	0.35	107	0.43	128	0.52	185	0.75
		2	**9-1008-26**	20.5	82	0.40	103	0.50	123	0.60	170	0.83
		2 1/2	**9-1010-26**	16.5	83	0.50	104	0.63	125	0.76	177	1.07
		3	**9-1012-26**	14.0	84	0.60	105	0.75	126	0.90	187	1.33
		3 1/2	**9-1014-26**	11.9	83	0.70	104	0.88	125	1.05	187	1.57
		4	**9-1016-26**	10.4	84	0.80	104	1.00	125	1.20	187	1.80
		12	**9-1048-26**	3.3	80	2.40	100	3.00	120	3.60	181	5.44
3/4	3/8	1	**9-1204-26**	137.0	270	0.20	337	0.25	405	0.30	422	0.31
		1 1/4	**9-1205-26**	103.0	260	0.25	324	0.31	389	0.38	407	0.40
		1 1/2	**9-1206-26**	82.2	246	0.30	307	0.37	369	0.45	398	0.48
		1 3/4	**9-1207-26**	68.5	237	0.35	297	0.43	356	0.52	392	0.57
		2	**9-1208-26**	57.8	232	0.40	290	0.50	348	0.60	371	0.64
		2 1/2	**9-1210-26**	44.0	222	0.50	277	0.63	333	0.76	344	0.78
		3	**9-1212-26**	36.2	217	0.60	271	0.75	325	0.90	347	0.96
		3 1/2	**9-1214-26**	30.8	216	0.70	270	0.88	324	1.05	350	1.13
		4	**9-1216-26**	26.8	215	0.80	269	1.00	323	1.20	351	1.31



Danly Springs

Heavy Duty - Red

DANLY SPRINGS RED

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
¾	⅜	4½	**9-1218-26**	23.7	213	0.90	266	1.12	319	1.35	352	1.49
		5	**9-1220-26**	21.2	212	1.00	265	1.25	318	1.50	353	1.66
		5½	**9-1222-26**	19.3	213	1.10	266	1.38	319	1.65	354	1.84
		6	**9-1224-26**	17.6	211	1.20	263	1.50	316	1.80	355	2.01
		12	**9-1248-26**	8.6	207	2.40	258	3.00	310	3.60	351	4.07
1	½	1	**9-1604-26**	215.0	423	0.20	529	0.25	-	-	622	0.29
		1¼	**9-1605-26**	163.0	411	0.25	513	0.31	616	0.38	648	0.40
		1½	**9-1606-26**	127.0	380	0.30	475	0.37	570	0.45	602	0.47
		1¾	**9-1607-26**	109.0	378	0.35	472	0.43	566	0.52	646	0.60
		2	**9-1608-26**	89.4	359	0.40	449	0.50	539	0.60	581	0.65
		2½	**9-1610-26**	69.1	348	0.50	435	0.63	522	0.76	571	0.83
		3	**9-1612-26**	57.0	341	0.60	426	0.75	512	0.90	584	1.02
		3½	**9-1614-26**	48.0	336	0.70	420	0.88	505	1.05	575	1.20
		4	**9-1616-26**	41.8	336	0.80	420	1.00	504	1.20	584	1.40
		4½	**9-1618-26**	37.1	333	0.90	416	1.12	500	1.35	591	1.59
		5	**9-1620-26**	33.1	331	1.00	414	1.25	497	1.50	585	1.77
		5½	**9-1622-26**	30.0	331	1.10	413	1.38	496	1.65	590	1.97
		6	**9-1624-26**	27.5	329	1.20	411	1.50	494	1.80	595	2.16
		7	**9-1628-26**	23.5	329	1.40	412	1.75	494	2.10	602	2.56
		8	**9-1632-26**	20.5	328	1.60	410	2.00	492	2.40	599	2.93
		12	**9-1648-26**	13.8	331	2.40	414	3.00	497	3.60	638	4.62
1¼	⅝	1½	**9-2006-26**	223.0	667	0.30	834	0.37	1001	0.45	1021	0.46
		1¾	**9-2007-26**	182.0	631	0.35	788	0.43	946	0.52	995	0.55
		2	**9-2008-26**	154.0	618	0.40	773	0.50	928	0.60	976	0.63
		2½	**9-2010-26**	117.0	590	0.50	737	0.63	884	0.76	926	0.79
		3	**9-2012-26**	94.7	567	0.60	708	0.75	850	0.90	916	0.97
		3½	**9-2014-26**	80.1	561	0.70	702	0.88	842	1.05	926	1.16
		4	**9-2016-26**	69.1	555	0.80	694	1.00	832	1.20	919	1.33
		4½	**9-2018-26**	60.7	545	0.90	681	1.12	817	1.35	914	1.50
		5	**9-2020-26**	54.7	547	1.00	684	1.25	821	1.50	933	1.71
		5½	**9-2022-26**	49.3	543	1.10	679	1.38	815	1.65	928	1.88
		6	**9-2024-26**	44.9	537	1.20	672	1.50	806	1.80	923	2.06
		7	**9-2028-26**	38.1	534	1.40	668	1.75	801	2.10	916	2.41
		8	**9-2032-26**	33.0	527	1.60	659	2.00	791	2.40	910	2.75
		10	**9-2040-26**	26.4	528	2.00	660	2.50	792	3.00	925	3.51
		12	**9-2048-26**	21.8	524	2.40	654	3.00	785	3.60	916	4.20

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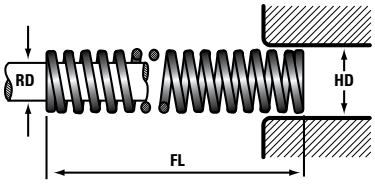
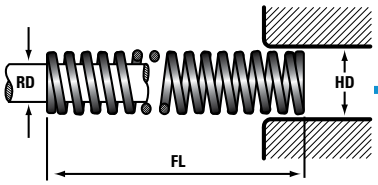
Danly Springs

Heavy Duty - Red



DANLY SPRINGS RED

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
1½	¾	2	**9-2408-26**	208.0	835	0.40	1044	0.50	1253	0.60	1357	0.65
		2½	**9-2410-26**	153.0	771	0.50	964	0.63	1157	0.76	1233	0.80
		3	**9-2412-26**	125.0	748	0.60	935	0.75	1122	0.90	1252	1.00
		3½	**9-2414-26**	105.0	736	0.70	920	0.88	1104	1.05	1265	1.20
		4	**9-2416-26**	90.6	728	0.80	910	1.00	1091	1.20	1252	1.38
		4½	**9-2418-26**	80.4	722	0.90	902	1.12	1083	1.35	1285	1.60
		5	**9-2420-26**	71.5	715	1.00	894	1.25	1073	1.50	1273	1.78
		5½	**9-2422-26**	64.3	709	1.10	886	1.38	1063	1.65	1263	1.96
		6	**9-2424-26**	59.0	706	1.20	883	1.50	1059	1.80	1284	2.18
		7	**9-2428-26**	50.3	705	1.40	881	1.75	1057	2.10	1294	2.57
		8	**9-2432-26**	43.8	700	1.60	875	2.00	1050	2.40	1299	2.97
		10	**9-2440-26**	34.6	692	2.00	865	2.50	1038	3.00	1291	3.73
		12	**9-2448-26**	28.7	689	2.40	862	3.00	1034	3.60	1300	4.53
2	1	2½	**9-3210-26**	242.0	1220	0.50	1524	0.63	1829	0.76	1904	0.79
		3	**9-3212-26**	193.0	1155	0.60	1444	0.75	1732	0.90	1860	0.96
		3½	**9-3214-26**	160.0	1121	0.70	1402	0.88	1682	1.05	1831	1.14
		4	**9-3216-26**	140.0	1124	0.80	1406	1.00	1687	1.20	1891	1.35
		4½	**9-3218-26**	123.0	1104	0.90	1380	1.12	1656	1.35	1901	1.55
		5	**9-3220-26**	108.0	1080	1.00	1350	1.25	1620	1.50	1840	1.71
		5½	**9-3222-26**	96.4	1063	1.10	1328	1.38	1594	1.65	1797	1.86
		6	**9-3224-26**	88.0	1053	1.20	1317	1.50	1580	1.80	1812	2.06
		7	**9-3228-26**	75.0	1051	1.40	1314	1.75	1577	2.10	1836	2.45
		8	**9-3232-26**	65.3	1044	1.60	1305	2.00	1566	2.40	1854	2.84
		10	**9-3240-26**	51.3	1026	2.00	1283	2.50	1539	3.00	1816	3.54
		12	**9-3248-26**	42.6	1023	2.40	1279	3.00	1535	3.60	1842	4.32
2½	1½	3	**9-4012-26**	295.0	1770	0.60	2213	0.75	2655	0.90	2980	1.01
		3½	**9-4014-26**	241.0	1687	0.70	2109	0.88	2531	1.05	2952	1.23
		4	**9-4016-26**	205.0	1640	0.80	2050	1.00	2460	1.20	2952	1.44
		4½	**9-4018-26**	178.0	1602	0.90	2003	1.13	2403	1.35	2964	1.67
		5	**9-4020-26**	157.0	1570	1.00	1963	1.25	2355	1.50	2944	1.88
		5½	**9-4024-26**	128.0	1536	1.20	1920	1.50	2304	1.80	2880	2.25
		6	**9-4028-26**	108.0	1512	1.40	1890	1.75	2268	2.10	2835	2.63
		7	**9-4032-26**	93.0	1488	1.60	1860	2.00	2232	2.40	2790	3.00
		8	**9-4036-26**	82.0	1476	1.80	1845	2.25	2214	2.70	2768	3.38
		10	**9-4040-26**	73.5	1470	2.00	1838	2.50	2205	3.00	2756	3.75
		12	**9-4048-26**	61.0	1464	2.40	1830	3.00	2196	3.60	2745	4.50



Danly Springs

Extra Heavy Duty - Yellow

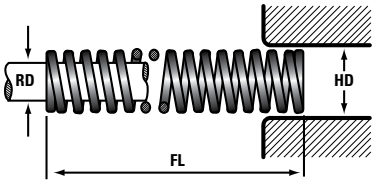
DANLY SPRINGS YELLOW

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
		¾	**9-0603-36**	25.2	32	0.13	38	0.15	47	0.19	53	0.21
		1	**9-0604-36**	18.7	31	0.17	37	0.20	46	0.25	54	0.29
		1¼	**9-0605-36**	14.6	31	0.21	37	0.25	46	0.31	53	0.37
		1½	**9-0606-36**	12.1	31	0.25	36	0.30	45	0.37	55	0.45
⅜	3/16	1¾	**9-0607-36**	10.1	30	0.29	35	0.35	44	0.43	52	0.51
		2	**9-0608-36**	8.8	30	0.34	35	0.40	44	0.50	52	0.59
		2½	**9-0610-36**	7.0	30	0.43	35	0.50	44	0.63	52	0.75
		3	**9-0612-36**	5.8	30	0.51	35	0.60	43	0.75	53	0.92
		12	**9-0648-36**	1.4	29	2.04	34	2.40	42	3.00	50	3.60
		¾	**9-0803-36**	44.5	57	0.13	67	0.15	83	0.19	102	0.23
		1	**9-0804-36**	33.5	56	0.17	66	0.20	82	0.25	105	0.31
		1¼	**9-0805-36**	25.2	54	0.21	63	0.25	79	0.31	97	0.38
		1½	**9-0806-36**	20.7	53	0.25	62	0.30	77	0.37	97	0.47
		1¾	**9-0807-36**	17.5	52	0.29	61	0.35	76	0.43	98	0.56
½	9/32	2	**9-0808-36**	15.4	53	0.34	62	0.40	77	0.50	103	0.67
		2½	**9-0810-36**	12.4	53	0.43	62	0.50	78	0.63	102	0.82
		3	**9-0812-36**	10.1	51	0.51	60	0.60	76	0.75	100	0.99
		3½	**9-0814-36**	8.6	51	0.60	60	0.70	75	0.88	100	1.16
		12	**9-0848-36**	2.4	49	2.04	58	2.40	72	3.00	96	4.02
		¾	**9-1003-36**	97.0	124	0.13	146	0.15	182	0.19	213	0.22
		1	**9-1004-36**	72.7	122	0.17	143	0.20	179	0.25	227	0.31
		1¼	**9-1005-36**	53.7	115	0.21	135	0.25	169	0.31	205	0.38
		1½	**9-1006-36**	43.3	110	0.25	130	0.30	162	0.37	201	0.46
		1¾	**9-1007-36**	36.3	107	0.29	126	0.35	157	0.43	199	0.55
⅝	11/32	2	**9-1008-36**	31.7	108	0.34	127	0.40	159	0.50	205	0.65
		2½	**9-1010-36**	24.7	106	0.43	124	0.50	156	0.63	201	0.81
		3	**9-1012-36**	20.3	103	0.51	121	0.60	152	0.75	199	0.98
		3½	**9-1014-36**	17.3	103	0.60	121	0.70	152	0.88	201	1.16
		4	**9-1016-36**	15.1	103	0.68	121	0.80	152	1.00	203	1.35
		12	**9-1048-36**	4.9	100	2.04	117	2.40	146	3.00	204	4.17
		1	**9-1204-36**	183.0	306	0.17	360	0.20	450	0.25	469	0.26
		1¼	**9-1205-36**	137.0	293	0.21	345	0.25	431	0.31	461	0.34
		1½	**9-1206-36**	111.0	282	0.25	332	0.30	415	0.37	472	0.43
		1¾	**9-1207-36**	92.4	272	0.29	320	0.35	400	0.43	466	0.50
¾	⅜	2	**9-1208-36**	79.7	272	0.34	320	0.40	400	0.50	473	0.59
		2½	**9-1210-36**	62.1	266	0.43	313	0.50	391	0.63	472	0.76
		3	**9-1212-36**	51.2	260	0.51	306	0.60	383	0.75	481	0.94
		3½	**9-1214-36**	43.2	257	0.60	303	0.70	378	0.88	474	1.10
		4	**9-1216-36**	37.3	255	0.68	300	0.80	374	1.00	468	1.25

C

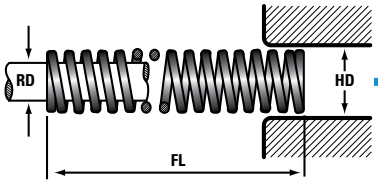
Danly Springs

Extra Heavy Duty - Yellow



DANLY SPRINGS YELLOW

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for Long Life (20% of FL)		Total Defl Recom for Avg. Life (25% of FL)		Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
¾	⅜	4½	**9-1218-36**	32.8	250	0.76	294	0.90	368	1.12	464	1.41
		5	**9-1220-36**	29.5	251	0.85	295	1.00	369	1.25	469	1.59
		5½	**9-1222-36**	26.6	249	0.94	293	1.10	367	1.38	466	1.75
		6	**9-1224-36**	24.3	247	1.02	291	1.20	364	1.50	463	1.91
		12	**9-1248-36**	12.0	245	2.04	288	2.40	360	3.00	469	3.92
1	½	1¼	**9-1605-36**	202.0	433	0.21	509	0.25	636	0.31	709	0.35
		1½	**9-1606-36**	160.0	407	0.25	479	0.30	598	0.37	692	0.43
		1¾	**9-1607-36**	132.0	389	0.29	457	0.35	572	0.43	686	0.52
		2	**9-1608-36**	113.0	386	0.34	454	0.40	567	0.50	681	0.60
		2½	**9-1610-36**	87.8	376	0.43	442	0.50	553	0.63	684	0.78
		3	**9-1612-36**	71.4	363	0.51	427	0.60	534	0.75	676	0.95
		3½	**9-1614-36**	60.2	359	0.60	422	0.70	527	0.88	671	1.11
		4	**9-1616-36**	52.0	355	0.68	418	0.80	522	1.00	667	1.28
		4½	**9-1618-36**	46.2	353	0.76	415	0.90	518	1.12	681	1.47
		5	**9-1620-36**	41.2	350	0.85	412	1.00	515	1.25	677	1.64
		5½	**9-1622-36**	37.5	351	0.94	413	1.10	516	1.38	686	1.83
		6	**9-1624-36**	34.4	351	1.02	413	1.20	516	1.50	695	2.02
		7	**9-1628-36**	29.3	349	1.19	410	1.40	513	1.75	697	2.38
		8	**9-1632-36**	25.5	347	1.36	408	1.60	510	2.00	700	2.74
		12	**9-1648-36**	16.9	345	2.04	406	2.40	507	3.00	676	4.00
1¼	⅝	1½	**9-2006-36**	279.0	710	0.25	835	0.30	1044	0.37	1093	0.39
		1¾	**9-2007-36**	231.0	680	0.29	800	0.35	1000	0.43	1108	0.48
		2	**9-2008-36**	197.0	672	0.34	791	0.40	989	0.50	1119	0.57
		2½	**9-2010-36**	152.0	651	0.43	766	0.50	957	0.63	1139	0.75
		3	**9-2012-36**	123.0	626	0.51	736	0.60	920	0.75	1121	0.91
		3½	**9-2014-36**	104.0	619	0.60	729	0.70	911	0.88	1131	1.09
		4	**9-2016-36**	88.9	607	0.68	714	0.80	893	1.00	1100	1.24
		4½	**9-2018-36**	77.5	591	0.76	696	0.90	870	1.12	1071	1.38
		5	**9-2020-36**	69.6	592	0.85	696	1.00	870	1.25	1090	1.57
		5½	**9-2022-36**	63.6	596	0.94	701	1.10	876	1.38	1128	1.77
		6	**9-2024-36**	57.6	586	1.02	689	1.20	862	1.50	1108	1.92
		7	**9-2028-36**	48.9	583	1.19	685	1.40	857	1.75	1099	2.25
		8	**9-2032-36**	42.6	579	1.36	681	1.60	851	2.00	1111	2.61
		10	**9-2040-36**	34.0	578	1.70	680	2.00	850	2.50	1128	3.32
		12	**9-2048-36**	28.3	578	2.04	680	2.40	850	3.00	1139	4.03



Danly Springs

Extra Heavy Duty - Yellow

DANLY SPRINGS YELLOW

Hole Dia. (in) HD	Rod Dia. (in)RD	Free Length FL	Part Number	RATE Pounds Redq. to Deflect 1/10 in.	Total Defl Recom for				Max. Oper. Defl. 30% of FL		Total Travel to Solid	
					Long Life (20% of FL)		Avg. Life (25% of FL)					
					Load lbs.	Defl. in.	Load lbs.	Defl. in.	Load lbs.	Defl. in		
1½	¾	2	**9-2408-36**	319.0	1089	0.34	1281	0.40	1601	0.50	1757	0.55
		2½	**9-2410-36**	241.0	1032	0.43	1214	0.50	1518	0.63	1726	0.72
		3	**9-2412-36**	193.0	982	0.51	1155	0.60	1444	0.75	1698	0.88
		3½	**9-2414-36**	160.0	953	0.60	1121	0.70	1402	0.88	1636	1.03
		4	**9-2416-36**	139.0	949	0.68	1116	0.80	1395	1.00	1710	1.23
		4½	**9-2418-36**	122.0	931	0.76	1095	0.90	1369	1.12	1700	1.39
		5	**9-2420-36**	108.0	918	0.85	1080	1.00	1350	1.25	1687	1.56
		5½	**9-2422-36**	97.6	915	0.94	1076	1.10	1345	1.38	1681	1.72
		6	**9-2424-36**	88.7	902	1.02	1062	1.20	1327	1.50	1672	1.89
		7	**9-2428-36**	75.0	894	1.19	1051	1.40	1314	1.75	1662	2.22
		8	**9-2432-36**	65.0	883	1.36	1039	1.60	1299	2.00	1655	2.55
		10	**9-2440-36**	51.6	877	1.70	1032	2.00	1290	2.50	1675	3.24
		12	**9-2448-36**	42.8	874	2.04	1028	2.40	1285	3.00	1686	3.94
2	1	2½	**9-3210-36**	414.0	1773	0.43	2086	0.50	2608	0.63	2818	0.68
		3	**9-3212-36**	327.0	1663	0.51	1957	0.60	2446	0.75	2743	0.84
		3½	**9-3214-36**	271.0	1614	0.60	1899	0.70	2374	0.88	2694	1.00
		4	**9-3216-36**	231.0	1577	0.68	1855	0.80	2319	1.00	2659	1.15
		4½	**9-3218-36**	201.0	1534	0.76	1804	0.90	2255	1.12	2644	1.31
		5	**9-3220-36**	179.0	1522	0.85	1790	1.00	2238	1.25	2623	1.47
		5½	**9-3222-36**	161.0	1509	0.94	1775	1.10	2219	1.38	2659	1.65
		6	**9-3224-36**	145.0	1475	1.02	1735	1.20	2169	1.50	2593	1.78
		7	**9-3228-36**	123.0	1465	1.19	1724	1.40	2155	1.75	2578	2.10
		8	**9-3232-36**	106.0	1440	1.36	1694	1.60	2118	2.00	2562	2.41
		10	**9-3240-36**	83.5	1420	1.70	1670	2.00	2088	2.50	2544	3.05
		12	**9-3248-36**	68.9	1406	2.04	1655	2.40	2068	3.00	2533	3.68

C

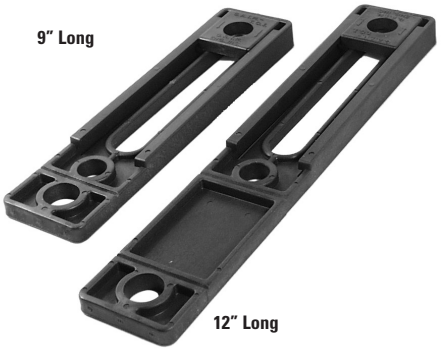
~ How it works ~

The T.O.I™ (Tool Opening Interrupter) holds the mold closed for
transporting, setup, teardown or storage.

The T.O.I™ is two pieces: a fixed piece that bolts to the stationary mold half, and a slide that moves within a track on the fixed
piece. The slide bolts to the movable mold half. As the mold is lifted, the slide wedges tightly to the fixed piece, preventing
the mold from opening.

To prevent damage to the tooling and machine, if the installer forgets to remove the T.O.I™ after installing the mold on the machine, the latch is designed to safely break apart when the machine opens the mold, thus not damaging eye bolts on handling hole.

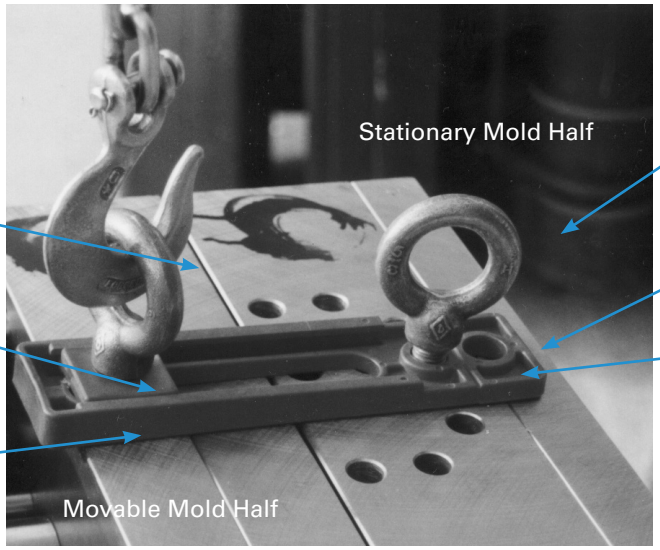
Caution: Close Mold Parting Line then install T.O.I.



9" Long
Part Number TOI9
(Ref# MAI0266)

12" Long
Part Number TOI12
(Ref# MAI0264)

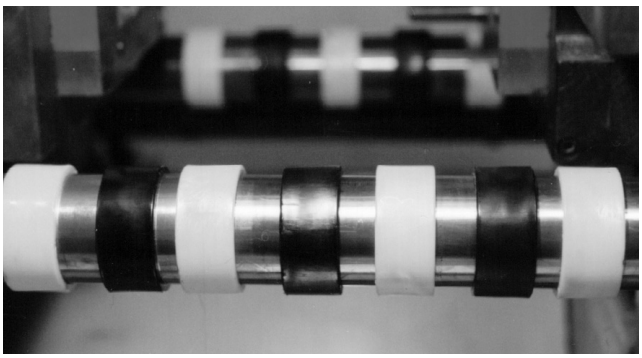
LATCH SYSTEM



Slide Eyebolt
Slide
Fixed Piece
Fixed Piece Eyebolt
3/4" Clearance Hole
Cutting Guide
5/8" Clearance Hole (not visible here)

Note: Hoist rings or shoulder-type eye bolts MUST be used with T.O.I. - not included.

B.A.R. Barrier Against Repairs



TIE BAR COVERS

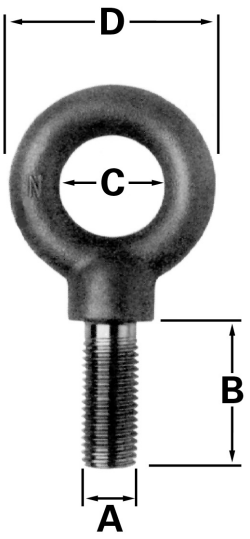
Prevent damage to those expensive tie bars!!
... cover each tie bar with expandable nylon rings in alternating yellow and black colors. Molds may then be installed or removed without gouging, scraping or scratching tie bars. When machine is operating, the rings remain in the forward position. When installing or removing a mold, simply spread out the rings along the tie bars (see photo). Rings have 5⁄32″ wall thickness and are tough and resilient nylon. Easily spread open (by hand) to install or remove. Suggest installing permanently... no need to remove. Rings should be installed in proper quantities to accommodate minimum shut mold-height, and are shipped in packages of 32 (16 yellow, 16 black).

Part Number	For Tie Bar Dia.	Ring I.D.	Ring Width
TBR125	1½″ – 1⅞″	1½″	1″
TBR200	2″ – 2⅜″	2″	1″
TBR250	2½″ – 2⅞″	2½″	1⅛″
TBR300	3″ – 3⅜″	3″	1⅛″
TBR350	3½″ – 3⅞″	3½″	1¼″
TBR400	4″ – 4⅞″	4″	1¼″
TBR500	5″ – 5⅞″	5″	1½″
TBR600	6″ – 6⅞″	6″	1½″

All Sizes One Price:
Kit of 32 total
(16 black, 16 yellow)

Forged Eye Bolts

- High-quality U.S. forged eye bolts
- Shoulder design
- Shows full engagement
- Huge savings, always in stock!



Material: C1030 steel, forged, heat-treated, quenched and drawn
Tensile strength: 65,000 PSI min.
Yield strength: 50,000 PSI min.
Elongation: 30% min.
Reduction of area: 60% min.

Warning: Rated capacity is substantially reduced when loading at any angle greater than 45° from bolt centerline. At an angle of 45°, rated capacity is reduced to 1/4 of shown rating.

HOIST RINGS INCH

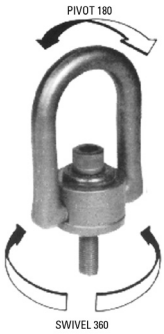
U.S. Thread (UNC-2A)			A-B-C-D (refer to photo)			
Part Number	Reference #	Safe Working Load [lbs]	Thread Size "A"	Shank Lgth "B"	Eye I.D. "C"	Eye O.D. "D"
EB250	EB21	500	¼-20	1″	¾″	1 3/16″
EB312	EB22	900	5/16-18	1⅛″	⅞″	1⅞″
EB375	EB23	1300	⅜-16	1¼″	1″	1 11/16″
EB437	EB24	1800	7/16-14	1⅜″	1 1/16″	1 13/16″
EB500	EB25	2400	½-13	1½″	1 3/16″	2⅛″
EB625	EB27	4000	⅝-11	1¾″	1⅜″	2 9/16″
EB750	EB28	5000	¾-10	2″	1½″	2 13/16″
EB875	EB29	7000	⅞-9	2¼″	1⅝″	3 3/16″
EB1000	EB30	9000	1–8	2½″	1 13/16″	3 9/16″
EB1125	EB31	12000	1⅛-7	2¾″	2″	4 1/16″
EB1250	EB32	15000	1¼-7	3″	2 3/16″	4 7/16″
EB1500	EB34	21000	1½-6	3½″	2½″	5 3/16″
EB1750	–	28000	1¾-5	3¾″	2⅞″	6″
EB2000	–	38000	2–4½	4″	3¼″	6⅞″

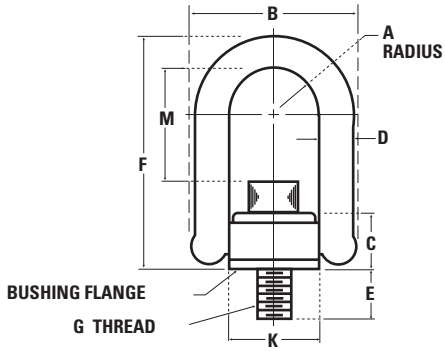
FORGED EYE BOLTS METRIC

Metric Sizes						
Part Number	Reference #	Safe Working Load [lbs]	Thread Size "A"	Shank Lgth "B"	Eye I.D. "C"	Eye O.D. "D"
EBM6	EBM6					
EBM8	EBM8	500	M8 × 1.25	16 mm	25 mm	43 mm
EBM10	EBM10	740	M10 × 1.5	20 mm	27 mm	46.0 mm
EBM12	EBM12	1030	M12 × 1.75	24 mm	30 mm	54.0 mm
EBM16	EBM16	1600	M16 × 2.0	32 mm	35 mm	65.0 mm
EBM20	EBM20	2860	M20 × 2.5	40 mm	41 mm	81.0 mm
EBM24	EBM24	3850	M24 × 3.0	48 mm	46 mm	90.4 mm
EBM30	EBM30	6400	M30 × 3.5	60 mm	55 mm	112.7 mm
EBM36	EBM36	8970	M36 × 4.0	72 mm	63 mm	131.8 mm
EBM42	–	11960	M42 × 4.5	84 mm	73 mm	152.4 mm
EBM48	–	16400	M48 × 5.0	96 mm	82 mm	174.6 mm

- 100% magnetic particle inspected
- OSHA approved
- Minimum 5 to 1 safety factor in ratings
- Range of movement: swivel 360°, pivot 180°
- Meets Military Specification No. MIL-STD 1365 (11) or MIL-STD 209C.
- Independent laboratory tested
- Manufactured for over 25 years
- Mil. Spec. – Mil.-Std. 1365 (11) or –209C
- Don't accept "look alike" imitations

Hoist Rings vs. Eyebolts
Side or angle pulling forces can cause eyebolts to twist, bend or break when heavy, angular unbalanced loads are involved.





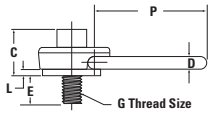
The quality you need at a price you can afford. Made to OSHA specs, these hoist rings are often specifically required by many companies and marked by number on many blueprints. We've added many larger sizes and longer bolt lengths for your convenience. If you are looking for something we don't list, please contact DME Industrial Supplies to request a special order.

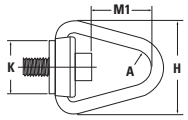
C

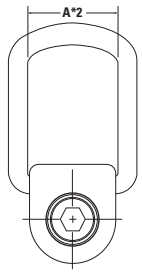
FORGED EYEBOLTS INCH METRIC

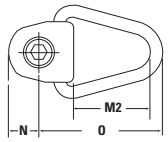
Part Number	"G" Thread	Lbs. Cap.	Dimensions A	B	C	E	F	K	Foot Lbs.	Wt.	Spare Bolt w/Ring Part Number
33212	5/16–18	800	0.65	2.29	0.96	0.56	3.23	1.25	7	0.52	**33252**
33214	5/16–18	800	0.65	2.29	0.96	1.06	3.23	1.25	7	0.54	**33254**
33312	3/8–16	1000	0.65	2.29	0.96	.56	3.23	1.25	12	0.56	**33352**
33314	3/8–16	1000	0.65	2.29	0.96	1.06	3.23	1.25	12	0.58	**33354**
33515	1/2–13	2500	1.00	3.50	1.50	1.00	5.31	1.89	28	1.72	**33555**
33516	1/2–13	2500	1.00	3.50	1.50	1.25	5.31	1.89	28	1.82	**33556**
33614	5/8–11	4000	1.00	3.50	1.50	1.00	5.31	1.89	60	1.78	**33654**
33615	5/8–11	4000	1.00	3.50	1.50	1.25	5.31	1.89	60	1.88	**33655**
33714	3/4–10	5000	1.00	3.50	1.50	1.00	5.31	1.89	100	1.89	**33754**
33716	3/4–10	5000	1.00	3.50	1.50	1.50	5.31	1.89	100	2.02	**33756**
33102	3/4–10	7000	1.50	5.10	2.05	1.20	7.37	2.81	100	7.23	**33122**
33103	3/4–10	7000	1.50	5.10	2.05	1.45	7.37	2.81	100	7.25	**33123**
33101	7/8–9	8000	1.50	5.10	2.05	1.20	7.37	2.81	160	7.33	**33121**
33105	1–8	10000	1.50	5.10	2.05	1.45	7.37	2.81	230	7.57	**33125**
33106	1–8	10000	1.50	5.10	2.05	1.20	7.37	2.81	230	7.63	**33126**
33107	1–8	10000	1.50	5.10	2.05	2.20	7.37	2.81	230	7.81	**33127**
33401	1 1/4–7	15000	2	6.75	2.87	2.63	9.22	3.88	470	16	**33421**
33420	1 3/8–6	20000	2	6.75	2.87	2.63	9.22	3.88	670	17.2	**33429**
33424	1 1/2–6	24000	2	6.75	2.87	2.63	9.22	3.88	800	18.1	**33422**
33427	2–4 1/2	30000	2	6.75	2.87	2.96	9.22	3.88	1100	22.9	**NA**
			Metric sizes								
		KG Cap.	A	B	C	E	F	K	Nm	Kg	
34212	M8 × 1.25	400	16.50	58.20	24.40	16	82	31.80	9.5	.24	**34252**
34312	M10 × 1.5	450	16.50	58.20	24.40	16	82	31.80	16.0	.25	**34352**
34515	M12 × 1.75	1050	25.40	88.90	38.10	25	134.9	48.00	37.0	.78	**34555**
34614	M16 × 2.0	1900	25.40	88.90	38.10	25	134.9	48.00	80.0	.81	**34654**
34714	M20 × 2.5	2200	25.40	88.90	38.10	25	134.9	48.00	135.0	.86	**34130**
34102	M24 × 3.0	4200	35.60	129.50	52.10	28	177.8	71.40	311.0	3.29	**34121**
34105	M30 × 3.5	4500	35.60	129.50	52.10	38	177.8	71.40	311.0	3.44	**34126**
34401	M30 × 3.5	7000	50.80	171.50	72.90	67	234.2	98.50	637.2	7.26	**34421**
34402	M36 × 4.0	11000	50.80	171.50	72.90	67	234.2	98.50	1085.5	8.21	**34422**
34403	M42 × 4.5	12500	50.80	171.5	72.90	80	234.2	98.50	1085.5	10.14	**NA**
34404	M48 × 5.0	13500	50.80	171.5	72.90	80	234.2	98.50	1085.5	10.59	**NA**

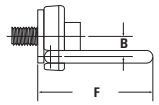
Side Pull Hoist Rings











STANDARD

Part Number	Rated Load (KG)	G	A	B	C	D	E	F	H	K	L	M1	M2	N	O	P	TL ft/lbs
36305	800	5/16 – 18	3/4	7/8	1 21/64	1/2	.479	4 23/32	3 7/8	2 3/16	7/32	2 57/64	3 3/16	1 1/4	5 1/8	4 1/4	7
36310	1000	3/8 – 16	3/4	7/8	1 25/64	1/2	.479	4 23/32	3 7/8	2 3/16	7/32	2 27/32	3 3/16	1 1/4	5 1/8	4 1/4	12
36315	2500	1/2 – 13	3/4	7/8	1 17/32	1/2	.979	4 23/32	3 7/8	2 3/16	7/32	2 45/64	3 3/16	1 1/4	5 1/8	4 1/4	28
36320	4000	5/8 – 11	3/4	7/8	1 41/64	1/2	.979	4 23/32	3 7/8	2 3/16	7/32	2 59/64	3 3/16	1 1/4	5 1/8	4 1/4	60
36325	5000	3/4 – 10	3/4	7/8	1 25/32	1/2	1.229	4 23/32	3 7/8	2 3/16	7/32	2 15/16	3 3/16	1 1/4	5 1/8	4 1/4	100
36330	7000	3/4 – 10	7/8	1 1/4	2 1/4	3/4	1 1/4	6 1/4	5 1/4	3 1/8	5/16	4	4 3/16	1 5/8	6 3/4	5 5/8	100
36335	8000	7/8 – 9	7/8	1 1/4	2 3/8	3/4	1 1/4	6 1/4	5 1/4	3 1/8	5/16	3 7/8	4 3/16	1 5/8	6 3/4	5 5/8	160
36340	10000	1 – 8	7/8	1 1/4	2 1/2	3/4	1 1/2	6 1/4	5 1/4	3 1/8	5/16	3 3/4	4 3/16	1 5/8	6 3/4	5 5/8	230

Part Number	Description
36305	HDSP .8K LB 5/16-18 × .479TP
36310	HDSP 1K LB 3/8-16 × .479TP
36315	HDSP 2.5K LB 1/2-13 × .979TP
36320	HDSP 4K LB 5/8-11 × .979TP
36325	HDSP 5K LB 3/4-10 × 1.229TP
36330	HDSP 7K LB 3/4-10 × 1 1/4TP
36335	HDSP 8K LB 7/8-9 × 1 1/4TP
36340	HDSP 10K LB 1-8 × 1 1/2TP

- Self-aligning in the direction of the load
- Rotates 360°
- Alloy steel, black oxide finish
- 100% magnetic particle inspected

METRIC

Part Number	Rated Load (KG)	G	A	B	C	D	E	F	H	K	L	M1	M2	N	O	P	TL N.M.
36805	400	M8 × 1.25	19	22	34	13	14	120	99	56	5	73	81	32	130	108	9.5
36810	450	M10 × 1.5	19	22	36	13	24	120	99	56	5	71	81	32	130	108	16.0
36815	1050	M12 × 1.75	19	22	38	13	37	120	99	56	5	69	81	32	130	108	37.0
36820	1900	M16 × 2.0	19	22	42	13	37	120	99	56	5	65	81	32	130	108	80.0
36825	2200	M20 × 2.5	19	22	46	13	37	120	99	56	5	61	81	32	130	108	135.0
36830	3000	M20 × 2.5	22	32	57	19	39	159	133	79	8	83	106	41	171	143	135.0
36835	4200	M24 × 3.0	22	32	61	19	43	159	133	79	8	79	106	41	171	143	311.0

Part Number	Description
36805	400KG M8X1.25 × 14MMTP
36810	450KG M10X1.5 × 24MMTP
36815	1050KG M12X1.75 × 37MMTP
36820	1900KG M16X2.0 × 37MMTP
36825	2200KG M20X2.5 × 37MMTP
36830	3000KG M20X2.5 × 39MMTP
36835	4200KG M24X3.0 × 43MMTP

EZ-Torque Hoist Ring eliminate the need for locating and using expensive hydraulic tensioners or torque multipliers for heavy load (WLL) capacity hoist rings.

A 75,000 lb. WLL Hoist Ring requires the mounting bolt to be torqued to 4,300 lbs-ft. EZ-Torque requires only a standard torque wrench and 92 lbs-ft of torque per screw.

Part Number	WLL	Normal Torque (lbs-ft.)	EZ-Torque (lbs.-ft.)	Thread
23490	15,000#	470	10	1¼"-7
23494	24,000#	800	18	1½"-6
23290	30,000#	800	23	2"-4½
23590	50,000#	2,100	49	2½"-8
23592	50,000#	2,100	49	2½"-4
23690	75,000#	4,300	92	3"-4
23790	100,000#	6,600	98	3½"-4
23792	150,000#	12,000	123	4¼"-4
23794	200,000#	19,800	193	5"-4
23798	250,000#	29,000	207	6"-4

C

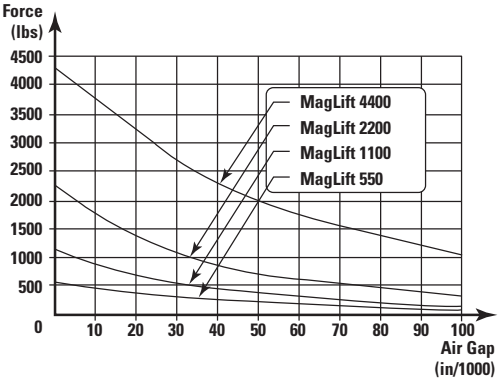
Bunting Maglift™

Bunting® MagLift™ Hand-Controlled Permanent Magnetic Lifters

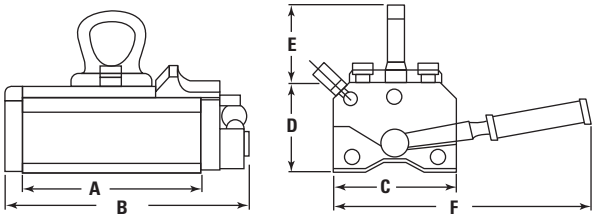
Bunting® MagLift Permanent Magnetic Lifters are powered by blocks of high-energy neodymium magnetic material. Switching is achieved by making one of these blocks reversible. In the "on" position, the reversible block is in parallel with the static blocks so that a concentrated magnetic field is produced at the pole feet for lifting. In the "off" position, the reversible block is rotated through 180 degrees to provide a total magnetic short circuit within the lifter body.

BUNTING MAGLIFT

Force/Air Gap Curve – Hand Controlled



Standard Magnetic Lifter



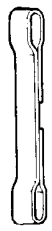
Model	Lifter Weight (lbs)	Dimensions A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Flat Section Safe Work Load (lbs)	Min. Thick-ness (in)	Max Length (inches)	Round Section Safe Work Load (lbs)	Max Dia-meter (in)	Max Length (in)
MAGLIFT275	9.9	4.3	5.9	3.0	2.4	2.1	5.9	275	0.6	60	110	10	60
MAGLIFT550	18.7	6.5	8.3	3.5	2.8	3.0	7.9	550	0.8	60	220	12	60
MAGLIFT1100	38.5	8.9	11.1	4.2	3.5	4.1	9.6	1100	1.0	80	440	16	80
MAGLIFT2200	80.3	12.8	15.4	5.4	4.1	4.4	14.4	2200	1.4	120	880	18	120
MAGLIFT4400	173.8	15.7	19.0	7.3	5.2	6.7	20.7	4400	2.8	120	1760	24	120

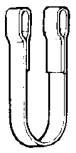
The maximum stated length is not the maximum diameter (always work within the stated Safe Work Load).
Above values are based on cold-rolled mild steel.

Heavy Duty Lifting Slings

- Red "Safety Alert" threads sewn into plies - red shows when sling should be replaced. Protects employees and employer!
- Meets OSHA requirements
- 3/16" thick - 2 ply nylon web
- Coated for abrasion resistance
- Use to 200°F
- Do not overload! Follow all manufacturers recommendations.
- Eye lengths:
  1" wide sling = 5 1/2"
  2" wide sling = 6 1/2"
- 3 foot overall length
- Use for: Barrels, Screws, End Caps, Molds and other lifting requirements within their lifting range
- Slings are impervious to most chemicals

Don't Take A Chance On Worn Slings!





Meets OSHA Requirements

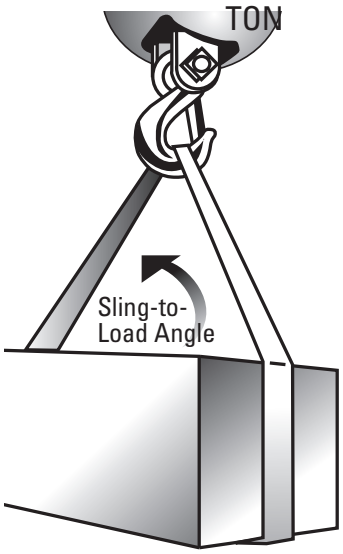
Part Number	Size	Rated Capacity-Lbs. Vertical	Choker	Basket
EE2-801	1" × 3 FT.	3,100	2,480	6,200
EE2-801-4	1" × 4 FT			
EE2-801-6	1" × 6 FT.			
EE2-801-8	1" × 8 FT			
EE2-802	2" × 3 FT.	6,200	4,960	12,400
EE2-802-4	2" × 4 FT.			
EE2-802-6	2" × 6 FT.			
EE2-802-8	2" × 8 FT			

HEAVY DUTY LIFTING SLINGS

Sling Load Chart

As the sling-to-load angle decreases, so does the rated capacity of a sling.

Use this chart for
all type slings: rope, chain or synthetic web.



Sling-To-Load Angle is always the angle between the sling leg and the horizontal surface.

RATED SLING CAPACITY (one leg)

	SLING LIFTING EFFICIENCY	SLING CAPACITY AT 90°	ACTUAL SLING CAPACITY
90°	100%	1000#	1000#
75°	96.6%	1000	966
60°	86.6%	1000	866
45°	70.7%	1000	707
30°	50.0%	1000	500
15°	25.8%	1000	258
5°	8.7%	1000	87

C

Polishing Wands

These disposable wands make it possible to use diamond compound or carborundum grit with the air filer. Apply
diamond compound directly to the side of the wand with
radiused edges. It may also be used as a sander by gluing a small piece of carborundum cloth to the flat side of the wand. Instruction sheet included.

Part Number AFW includes set of 12 wands; 2 each of 6
different sizes

POLISHING WANDS

Check out Section D for a complete listing of Mill Files and other abrasives!

PNEUMATIC MINI GRINDER

Part Number DG390

- ⅛" collet size, includes wrenches and coupler
- 54,000 RPM/8 CFM
- Ideal for access to confined areas, comfortable to use
- Finger operated speed control; convenient and precise
- 5' braided hose & 13" protector, ensures long-term use
- Smooth running
- Low cost!

Die Grinders

C

DIE GRINDERS

SM512M 1/4" High Speed Die Grinder

- Heavy duty, lightweight construction for general high-speed polishing & grinding
- Rear exhaust
- Ball bearing construction for longer tool life
- Grooved handle design for firm grip
- Variable speed throttle for positive speed control
- Cylinder constructed of high-quality steel
- 1 year warranty against defects
- 22,000 RPM/4 CFM

SM522 Pneumatic 1/4" Angle Die Grinder

- Heavy duty, lightweight construction for general high-speed polishing & grinding
- Chrome-plated "paddle" safety trigger
- Ball bearing construction for longer tool life
- Grooved handle design for firm grip
- Variable speed throttle for positive speed control
- Cylinder constructed of high-quality steel
- 1 year warranty against defects
- 20,000 RPM/4 CFM

Kit SM512K

includes:

1 - SM512M die grinder
1 - 1/4" collet installed
1 - 1/8" extra collet
10 - mounted wheels
1 - blow molded case, coupler, wrenches

Model Number	Speed RPM	Collet Size	Inlet Size NPT	Hose Size	Air Press. PSI	Air Cons. CFM	Length	Weight Lbs.
SM512M	22,000	¼"	¼"	⅜"	90	4	6¾"	1⅛
SM512C		⅛"	⅛" Collet for Grinders					
SM512K	22,000	¼"	¼"	⅜"	90	4	6¾"	1⅛
SM522	20,000	¼"	¼"	⅜"	90	4	5-½"	¾

Solid Carbide Burrs

SOLID CARBIDE BURRS

Highest quality carbide burrs in a wide selection of sizes and styles at very attractive prices!
Burrs of any size, shape and cut can be manufactured to your specifications.

Cylindrical

Part Number	Dia.	Face Length
SA1	1/4	5/8
SA3	3/8	3/4

Cylindrical End Cut

Part Number	Dia.	Face Length
SB12M	1/8	5/8
SB1M	1/4	5/8
SB2M	5/16	3/4
SB2AM	5/16	1"
SB3M	3/8	3/4
SB4M	7/16	1"

Cylindrical Radius Cut

Part Number	Dia.	Face Length
SC12	1/8	5/8
SC14	3/16	5/8
SC1	1/4	5/8
SC1A	1/4	1"
SC2	5/16	3/4
SC2A	5/16	1"
SC3	3/8	3/4
SC3A	3/8	1"
SC5	1/2	1"

Round Tree Shape

Part Number	Dia.	Face Length
SF1	1/4	5/8
SF1A	1/4	3/4

Pointed Tree Shape

Part Number	Dia.	Face Length
SG3	3/8	3/4

Oval Shape

Part Number	Dia.	Face Length
SE3	3/8	5/8
SE5	1/2	7/8

Ball Shape

Part Number	Dia.	Face Length
SD12	1/8	1/8
SD2	5/16	5/16
SD4	7/16	7/16
SD5	1/2	1/2
SD6	5/8	5/8

Cone Shape

Part Number	Dia.	Face Length
SM1	1/4	1/2
SM3	1/4	1"
SM3B	5/16	3/4
SM4	3/8	5/8
SM6	5/8	1"

14° Taper-Radius End

Part Number	Dia.	Face Length
SL2	5/16	7/8
SL4	1/2	1 1/8

90° Included

Part Number	Dia.	Face Length
SK1	1/4	1/8
SK2	3/8	3/16
SK7	3/4	3/8

60° Included

Part Number	Dia.	Face Length
SJ1	1/4	3/16
SJ3	3/8	1/4

Flame Shape

Part Number	Dia.	Face Length
SH1	1/4	1/2
SH2	5/16	3/4
SH5	1/2	1 1/4

Inverted Cone (E = End Cut)

Part Number	Dia.	Face Length
SN1	1/4	5/16

Carbide Thin Disk (Flat)

Part Number	Dia.	Face Length
X261F	1/4	3/32
X264F	1/2	1/8

Carbide Thin Disk (Radius)

Part Number	Dia.	Face Length
X262R	5/16	3/32
X263R	3/8	1/8
X264R	1/2	1/8

SOLID CARBIDE BURRS

Series 40 - Solid Carbide
Set #1 - 8 Rotary Files indicated by * - in a plastic case.
Part Number SA9999

SA43* 1/8 × 9/16

SB41 ECO 1/8

SD42* 1/8

SH41 1/8 × 1/4

SG41 1/8 × 1/4

SM43 1/8 × 5/8–7° Incl.Taper

SL42 1/8 × 1/2–8° Incl.Taper

SK42 1/8 –90° Incl.Taper

SA42 3/32 × 7/16

SC42* 1/8 × 9/16

SD41 3/32

SG44* 1/8 × 1/2

SF42* 1/8 × 1/2

SM42 1/8 × 7/16 –14° Incl.Taper

SL41* 1/8 × 7/16 –8° Incl.Taper

SN42* 1/8 × 3/6 –10° Incl.Taper

SA41 1/16 × 1/4

SC41 3/32 × 7/16

SE41* 1/8 × 1/4

SG43 1/8 × 3/8

SE41 1/8 × 1/4

SM41 1/8 × 11/32 –12° Incl.Taper

SJ42 1/8 –60° Incl.Taper

SN41 3/32 × 1/8 –10° Incl.Taper

Series 51 Set #4
- All files in this group
Part Number 51–9999

Note: Does not include case

1/4" Diameter Carbide Head
1/8" Dia. Shank (heat-treated steel)
1 1/4" Shank Length - 1 3/4" max. overall

SA51 1/2"

SB51 3/16"

SD51 1/4"

SC51 1/2"

SF51 1/2"

SG51 1/2"

SM51 1/2"–22°

SE51 3/8"

SM51 1/4"–10°

Carbide Burr Sets

Burr Set A			Burr Set B		
Part Number C250-9			Part Number C500-9		
SA1	SC1	SD1	SA5	SC5	SD5
SE1	S1	SG1	SE5	SF5	SG5
SH1	SL1	SM1	SH5	SL4	SM5
Burr Set C			**Burr Set D**		
Part Number C375-9			Part Number C927-9		
SA3	SC3	SD3	SA5	SC1	SD3
SE3	SF3	SG3	SE5	SF1	SG3
SH2	SL3	SM4	SH5	SL3	SM1

High-Quality Needle Files

Mascot Needle Files	
Number	**Shape**
NF33860	Equalling
NF33861	Flat
NF33862	Half-Round
NF33863	Round
NF33864	Square
NF33865	Three-Square
6 Shapes Above In A Plastic Pouch	
NF33867	Assortment

Economical, Swiss single-cut files do not clog as easily as double-cut. Overall length 5 1/2"; smooth cut only.

GROBET-U.S.A.

HIGH QUALITY NEEDLE FILES

Tell Needle Files		
Shape	**Medium Cut Number**	**Fine Cut Number**
Barrette	**NF33880**	**NF33881**
Crossing	**NF33882**	**NF33883**
Equalling	**NF33884**	**NF33885**
Half-Round	**NF33886**	**NF33887**
Knife	**NF33890**	**NF33891**
Round	**NF33894**	**NF33895**
Square	**NF33898**	
Three-Square	**NF33900**	**NF33901**
Warding	**NF33902**	**NF33903**

Tell Needle Files in Sets of 6 or 12	
NF33906	6 Pcs/Med Cut
NF33907	6 Pcs/Fine Cut
NF33908	12 Pcs/Med Cut
NF33909	12 Pcs/Fine Cut

6-Piece Sets include one of each Barrette, Equalling, Half-Round, Round, Square and Three-Square Files

12-Piece Med. Cut Set includes one of each style plus 1 extra of the following: Equalling, Round, Three-Square

12-Piece Fine Cut Set includes one of each style except Square, plus one extra of the following: Barrette, Half-Round, Round and Three-Square

DIAMOND NEEDLE FILES

Diamond Needle Files

Excellent quality, economically priced files; available in the five most popular shapes. Deliver excellent performance deburring, smoothing and finishing ultrahard materials, such as hardened steel, carbide, ceramics, glass. All files are 5 1/2" (14cm) long, with 2 1/2" diamond surface bonded to file faces by special process. Available in just one surface fineness.

Diamond Needle Files	
Number	**Shape**
NF33961	Equalling
NF33962	Half-Round
NF33963	Round
NF33964	Square
NF33965	Three-Square
5 Shapes Above in a Plastic Pouch	
NF33960	Assortment

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COMMERCIAL AIR CIRCULATORS

- 115V, ¼ HP, 3-speed, totally enclosed single-phase motor
- Four mounting options
- Steel propeller
- CFM range from 2520 to 6100
- Sized from 18″ to 30″

Part Number	Description
CA30APE	Commercial 30″ fan with adjustable pedestal
CA30WC	Commercial 30″ fan with wall mount bracket

PIVOT STAND & WORK STATION FANS

- 115V, 3 speed, ODP motors
- 18″ fans blades
- CFM range from 953 to 3390
- Chrome-plated tubular steel frame
- Aluminum propellers

Part Number	Description
I-18LS	Low stand 18″
I-18YM	Yoke mount 18″
I-18HS	High stand 18″

AIR CIRCULATORS ARE NO LONGER AVAILABLE

Fan types (High Stand, Low Stand, Yoke Mount)

18″ High Velocity Low Stand

- Totally enclosed, ⅛ HP motor
- CFM range 4550 to 3346

Part Number	Description
I-18TELS	Enclosed low stand/yoke mount 18″

PORTABLE UTILITY BLOWER WITH HEATER OPTION

- Ready to use
- Up to 300 CFM airflow
- 120V, 60Hz, 1.77 AMPs, 3-speed motor
- Adjustable air direction
- Optional heater converts blower to lightweight portable heater

Part Number	Description
UB180	Red utility blower
HFUB11	Heater attachment for UB180

DME offers a full line of industrial and ventilation fans for roofs and walls, as well as dozens of other fans for commercial and industrial settings.

Note: Items below have 1-2 week lead time.

MANCOOLERS ARE NO LONGER AVAILABLE

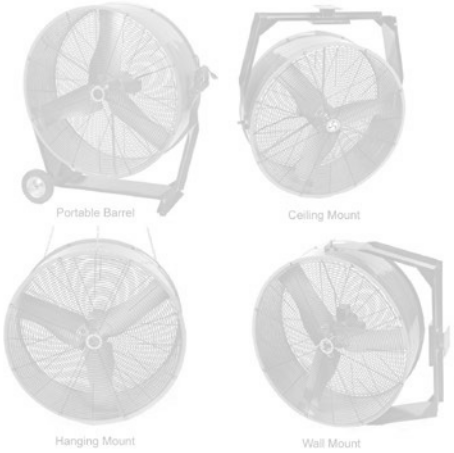
MISTING BARREL

- 115V, 1/3 HP, indoor/outdoor motor
- 3-nozzle misting head
- Variable water output
- Dual point filtering system
- Misting pattern of 60′ x 20′
- CFM range from 4100 to 8800

Part Number	Description
AMF-30-B	Misting Barrel

DIRECT DRIVE 4-in-1® MANCOOLER®

- One fan – four mounting options - ceiling, wall, hanging & portable barrel mounts
- 115V, 1 phase, direct drive, totally enclosed air over (TEAO) motor
- Epoxy-coated guards, barrel, & mounts
- 36″ fan
- CFM range from 3410 to 11,200



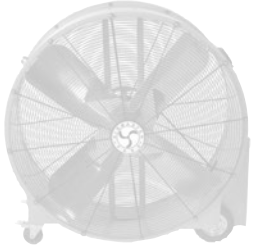
Part Number	Description
DD3641	4-in-1 Mancooler

BELT DRIVE PORTABLE MANCOOLERS EMC42D

- 115V, belt drive, ODP motor
- Deep-spun venturi & deep-pitched blades
- Pull handles
- Epoxy-coated barrel, propellers & guards

MC420S

- Motor out of airstream
- Locking casters
- Epoxy-coated steel spiral, vibration isolation guards
- Quiet – dB: high 75, low 67



Part Number	Description
EMC42D	42″
MC420S	42″

Plastic Scoops

Part Number	Description
PS1	2½ Cup Scoop
PS2	9 Cup Scoop

PLASTIC SCOOPS

Packaging Clips

Streamline your packaging with Quality Clips™

- Completely removable and reusable. Better than tape,
  it won't mark your boxes or leave residue.
- Prevents tipped or spilled boxes due to loose box flaps.
- Great for bulk packaging. Parts will not hang up on the smooth, flat surfaces or the tapered end.
- Maximize your workspace. Workers can stand closer to the box creating space in assembly line and manufacturing areas. No more leaning or reaching.

Quality Clips®
Part Number
QCLIPS

PACKAGING CLIPS

Stop Watches

PRO SURVIVOR™ SERIES STOPWATCH

- Large display - easy to read
- 24 hour stopwatch
- Range in 6 digits
- Water & shock resistant
- Alarm, chime and calendar
- Bright yellow color - easy to see!
- Resolution of 1/100 second
- Time cumulative splits
- Lanyard included

Part No. A601XY

D

Tally Counters

HAND TALLY COUNTER FOUR DIGIT

- Chrome-plated metal construction
- Finger lever and reset knob for easy hand use

Part No. TC600A

DESKTOP TALLY COUNTER FOUR DIGIT •

- Chrome-plated metal construction
- With flange 2" dia. for desktop mounting
- Recording lever and reset knob

Part No. TC600B

Mill Files

MILL FILES-SQUARE EDGES

Shape: Tapered slightly in width. Sides and edges are single cut.
Use: This is the most commonly used file in the U.S. It is suitable for quick removal of stock from plain surfaces. Works on all metals and plastics.

Overall Length	Size (Width × Thickness)	Bastard Part Number	2nd Cut Part Number	Smooth Part Number
4″	7⁄16″ × 5⁄64″	**MBF4**		**MSF4**
6″	20⁄32″ × 7⁄64″	**MBF6**	**M2F6**	
8″	12⁄16″ × 5⁄32″	**MBF8**	**M2F8**	**MSF8**
10″	1″ × 3⁄16″	**MBF10**	**M2F10**	**MSF10**
12″	13⁄16″ × 7⁄32″	**MBF12**	**M2F12**	**MSF12**
14″	111⁄32″ × 1⁄4″	**MBF14**		**MSF14**

Flat files, half round files, knife files, round files, square files, warding files, three-square files and special requests; please call DME for pricing.

Nylon Hand Pads

- Made from three dimensional, non-woven nylon webs impregnated with abrasive materials
- Very durable; resist tearing splintering, loading and shredding
- Can be rinsed for reuse
- Provides a clean, contaminate-free surface that will improve adhesion of all types of coatings
- Also available in rolls
- Satisfaction guaranteed with this fine product and our low prices!

Pads are 6″ × 9″

NYLON HAND PADS

Pads/ Number	Equal	Color	Cut	Pack
NS7448	7448	Gray	Ultra-Fine	20
NS7447	7447	Maroon	General Purpose - Fine	20
NS7446	7446	Green	General Purpose - Regular	20
NS7440	7440	Tan	Extra Heavy Duty	10

Insta-Lok® Extra Heavy Duty Hand Block

A hand pad holder specially designed for speed cleaning, finishing and blending. Fabricated of rugged, long-lasting plastic, the Insta-Lok Hand Block securely grips and holds all ScotchBrite Industrial Hand Pads for maximum surface conditioning results. Accepts pads 6444, 6448, 7440, 7445, 7446, 7447 and 7448 after they have been cut in half.

Part #952

INDUSTRIAL HAND PAD HOLDER

Abrasive Cloth Rolls

Abrasive Cloth Rolls from DME Industrial Supplies are aluminum oxide on a flexible cloth backing for all sorts of cleaning and deburring. Rolls are easy to dispense as needed and will work hard so you can work easy.

All Abrasive Cloth Rolls are 50 yards long!

1″ WIDE		1½″ WIDE		2″ WIDE	
Part Number	Grit	Part Number	Grit	Part Number	Grit
10UR060	60	**15UR060**	60	**20UR060**	60
10UR080	80	**15UR080**	80	**20UR080**	80
10UR100	100	**15UR100**	100	**20UR100**	100
10UR120	120	**15UR120**	120	**20UR120**	120
10UR150	150	**15UR150**	150	**20UR150**	150
10UR180	180	**15UR180**	180	**20UR180**	180
10UR240	240	**15UR240**	240	**20UR240**	240
10UR320	320	**15UR320**	320	**20UR320**	320

ABRASIVE CLOTH ROLLLS

Abrasive Cloth Sheets

Aluminum Oxide

- Waterproof
- 9″ × 11″ sheets
- Finest quality
- Lowest prices!

Better than the competition! Our Aluminum Oxide Sheets are stronger cloth-backed sheets, not paper!

Part Number	Grit
CS35251003	80
CS35251004	100
CS35251005	120
CS35251006	150
CS35251007	180
CS35251008	220
CS35251009	240
CS35251010	320
CS35251011	400

ABRASIVE CLOTH SHEETS

- Reversible for heavy-duty cleaning
- Choose copper for safe non-scratch cleaning or stainless for more aggressive heavy-duty cleaning.
- 5″ wide in 100 or 400 foot rolls
- Tough interlocking loops - won't pull apart!
- Two weights to choose from -
  - Economy grade & stainless - .002″ × .010 wire
  - Regular grade copper - .002″ × .019″ wire

Part Number	Reference Number	Width	Length
Economy Copper Gauze			
LCG100	–	5″	100′
Regular Copper Gauze			
MCG100	CG1	5″	100′
MCG400	CG4	5″	400′
Stainless Steel Gauze Type 304			
SSG100	–	5″	100′

COPPER GAUZE

Efficient Cleaning of Screws and Barrels Using Copper Gauze and Grease in Eight

Step 1
Clean the extruder with a purging compound. Then, clean the die face with small ball of copper gauze that has some silicone grease on it. Also, clean valve while still hot.

Step 2
Remove the die from the extruder head. This is best cleaned by forcing silicone-coated copper gauze through it, using a wooden dowel.

Step 3
Once the gauze has been passed through the die, it can be pulled back and forth to complete the cleanup.

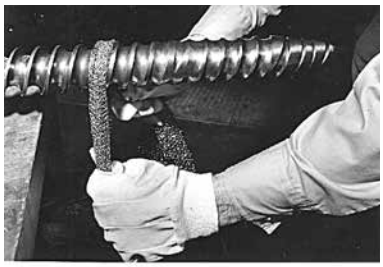
Step 4
Ensure that the die is thoroughly cleaned, with no residual trace of adhered plastic, nor a scratch on the metal surfaces.

Step 5
Partially remove the hot screw, wrap silicone grease coated gauze 2 or 3 times around screw and use "shoe shine" motion. Intermittently relax tension so gauze can be "walked down" the screw.

Step 6
Remove screw almost out of barrel. Copper gauze should be "walked down" as the screw is being pulled out. Screw is now clean. (Note that operations 5 & 6 take only 5 minutes).

Step 7
To clean barrel, wrap copper gauze around a round wire brush at end of long rod and pass through barrel. Then, chuck rod into power drill, insert fresh gauze and pass back and forth through barrel until clean.

Step 8
You're now ready to reassemble and get back into production. Be sure to lightly coat copper gauze with silicone grease for all operations.



Refer to Section H Page 681 for info on Silicone Grease!

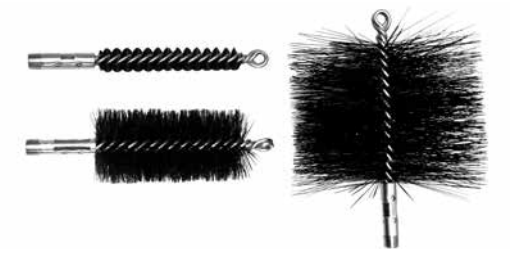
Barrel Brushes

Barrel Cleaning Brushes

Barrel Cleaning Brushes

- Double spiral carbon steel
- Brush length: 4½″
- Overall length: 8″
- ¼″ NPT nipple

High Carbon Double Spiral



Inch Sizes			Metric Sizes		
Part Number	Diameter	Wire Size	Part Number	Diameter	Wire Size
BCB075	¾″	.012	**BCB18M**	18 MM	.012
BCB100	1″	.012	**BCB22M**	22 MM	.012
BCB125	1¼″	.012	**BCB24M**	24 MM	.012
BCB150	1½″	.012	**BCB27M**	27 MM	.012
BCB175	1¾″	.012	**BCB30M**	30 MM	.012
BCB200	2″	.012	**BCB32M**	32 MM	.012
BCB225	2¼″	.012	**BCB35M**	35 MM	.012
BCB250	2½″	.012	**BCB38M**	38 MM	.012
BCB275	2¾″	.012	**BCB40M**	40 MM	.012
BCB300	3″	.012	**BCB45M**	45 MM	.012
BCB325	3¼″	.012	**BCB50M**	50 MM	.012
BCB350	3½″	.012	**BCB55M**	55 MM	.012
BCB375	3¾″	.012	**BCB57M**	57 MM	.012
BCB400	4″	.012	**BCB60M**	60 MM	.012
BCB450	4½″	.012	**BCB65M**	65 MM	.012
BCB600	6″	.012	**BCB67M**	67 MM	.012
			BCB70M	70 MM	.012
			BCB80M	80 MM	.012
			BCB90M	90 MM	.012
			BCB105M	105 MM	.012
			BCB115M	115 MM	.012

BARREL BRUSHES-INCH

BARREL BRUSHES-METRIC

Extension Rods

Part Number	Description
FER3*	3′ Fiberglass Extension
TER3*	3′ Twisted Wire Extension
HER3	Handle For Ext. Rods

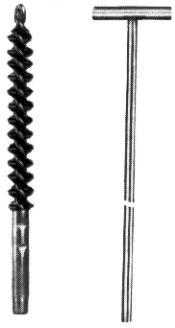
EXTENSION RODS

* Rods can be connected end to end for longer reach

Part Number	Brush Dia.	Overall Length	Wire Size
Power-Driven Single Spiral - Brass			
BCB250PD	¼″	12″	.005
BCB375PD	⅜″	12″	.005
BCB500PD	½″	12″	.006
BCB750PD	¾″	12″	.010
Power-Driven Double Spiral - Brass			
BCB250PDD	¼″	12″	.003
BCB375PDD	⅜″	12″	.003
BCB500PDD	½″	12″	.004
BCB750PDD	¾″	12″	.060
Condenser Cleaning Brush - Brass			
CCB0375	⅜″	4½″	7½″
CCB0500	½″	4½″	7½″
CCB0625	⅝″	4½″	7½″
CCB0750	¾″	4½″	7½″
CCB1000	1″	4½″	7½″
Rods			
CCB24	EXTENSION ROD - 24″		
CCB36	EXTENSION ROD - 36″		
CCBH	HANDLE FOR RODS		

Power-Driven Single Spiral

Power-Driven Double Spiral



24″ or 36″ extension rod - optional T-handle Condenser Brush & Extension Handle 1/8″ NPT external - 5/16″ - 18 internal

D

Thread Cleaning Brushes

The perfect brushes for cleaning and polishing threads, inner walls of tubes and cylinders. Solid concentration of bristles provides a high degree of bristle stiffness with little flexing of bristles during operation. For use in power tools. Use holder to run at a higher RPM. Choose high-carbon steel or brass.

Thread Cleaning Brushes

THREAD CLEANING BRUSH

Brush Dia.	Overall Length	Wire Size	Brass Part Number	High Carbon Steel Part Number	Fits Holder Number
¼″	2–⅛″	.005	**TCB250**	**TCS250**	TCH1
⅜″	2–⅛″	.008	**TCB375**	**TCS375**	TCH1
½″	2–⅛″	.008	**TCB500**	**TCS500**	TCH2
⅝″	2–¼″	.008	**TCB625**	**TCS625**	TCH2
¾″	2–¼″	.008	**TCB750**	**TCS750**	TCH2
⅞″	2–¼″	.008	**TCB875**	**TCS875**	TCH2
1″	2–¼″	.008	**TCB1000**	**TCS1000**	TCH2
1–⅛″	2–¼″	.008	**TCB1125**	**TCS1125**	TCH2
1–¼″	2–¼″	.008	**TCB1250**	**TCS1250**	TCH2

Interchangeable with competitors' models

Brush Holders

BRUSH HOLDERS

Part Number	Shank Dia.	Dia. Brush End	Stem Size
TCH1	¼″	¼″	.099
TCH2	¼″	⅜″	.150

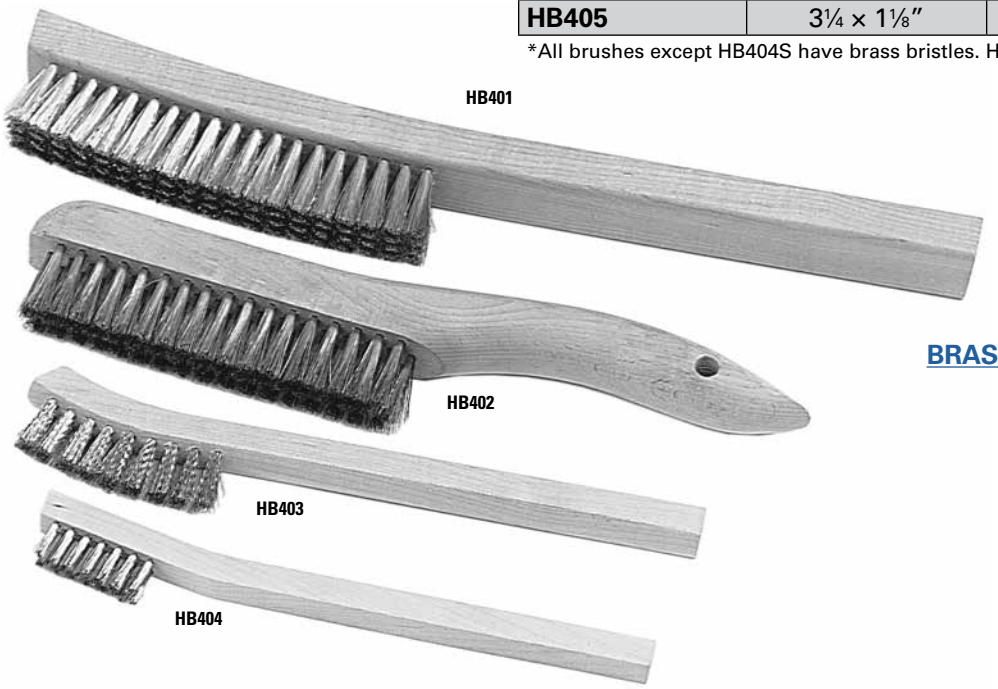
Brass Brushes

High-Quality Brass Hand Brushes

- For light cleaning and polishing for metal finishing, plating and general industrial applications
- Carved wood handles

Part Number	Block Size	Number of Rows
HB401	13 × 1⅛″	4
HB402	10 × 1⅛″	4
HB403	8⅝ × ⅝″	2 × 9
HB404	7¾ × ½″	3 × 7
HB404S*	7¾ × ½″	3 × 7
HB405	3¼ × 1⅛″	4 × 11

*All brushes except HB404S have brass bristles. HB404S has steel bristles!

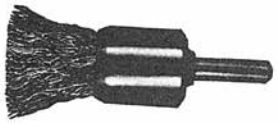


BRASS HAND BRUSHES

BRASS END BRUSHES

Brass Solid End Brushes

Part Number	Brush Diameter	Wire Size
SEB0500	½″	.010
SEB0750	¾″	.010
SEB1000	1″	.010



COPPER END BRUSHES

Copper Center Brass Brushes

Part Number	Brush Diameter	Wire Size
CCB200	2″	.006
CCB300	3″	.006
CCB400	4″	.006

CCB3K	3 Brush Kit - 2″, 3″ 4″
CCBD	¼″ Shank Driver

Highly-efficient brushes for cleaning:

- Condenser tubes
- Cartridge heater holes
- Ejector pin holes
- Mold cavity holes

D

Brass Tube Brushes

BRASS TUBE BRUSHES

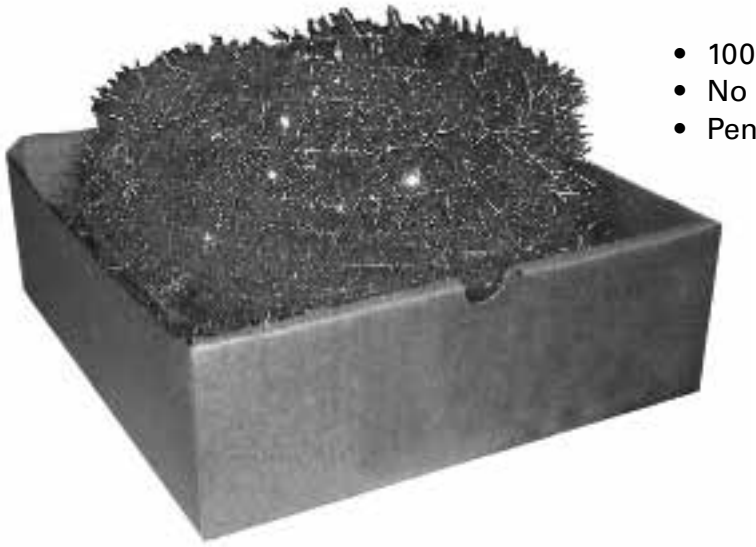
Part Number	Brush Diameter	Overall Length	Wire Size
BTB0062	1/16″	4″	.003
BTB0125	1/8″	6″	.003
BTB1875	3/16″	7″	.003
BTB2500	1/4″	7″	.003
BTB3125	5/16″	7″	.004
BTB3750	3/8″	8″	.006
BTB4375	7/16″	8″	.006
BTB5000	1/2″	8″	.006
BTB5625	9/16″	9″	.005
BTB6250	5/8″	9″	.005
BTB6875	11/16″	9″	.005
BTB7500	3/4″	9″	.005
BTB8125	13/16″	10″	.005
BTB8750	7/8″	10″	.005
BTB9375	15/16″	10″	.005
BTB1000	1″	10″	.005

Nylon Tube Brushes

NYLON TUBE BRUSHES

Part Number	Diameter	Brush Part	Overall Length	Filament Diameter
NTB187	3/16″	2 1/4″	6 3/4″	.006
NTB250	1/4″	2 1/2″	10″	.008
NTB312	5/16″	2 1/2″	12″	.008
NTB500	1/2″	3″	8 1/2″	.010
NTB625	5/8″	4″	12″	.008
NTB750	3/4″	4″	12″	.008
NTB875	7/8″	4″	16″	.020
NTB1000	1″	4″	24″	.016
NTB1250	1 1/4″	4″	12″	.020
NTB1500	1 1/2″	4″	24″	.020
NTB2000	2″	4″	24″	.020

Anti-Static Copper Tinsel



- 100% copper
- No power needed
- Pennies per foot

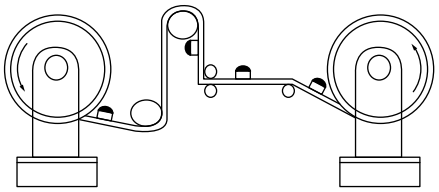
ANTI-STATIC COPPER TINSEL

Proven through over 50 years of success to be the most effective low-cost, low-maintenance passive static electricity eliminator available, Anti-Static Tinsel is one of the most widely used methods of static control. Anti-Static Tinsel from DME Industrial Supplies is 100% ultra conductive copper strands, and eliminates static through the "self-energizing" or inductive principle. The core is made of multiple copper wires (not string) to ensure positive grounding and strength. The fine, sharply pointed copper strands provide greater static elimination. The conductive strands are interspersed to maximize effectiveness, but are not so dense as to make it easy to collect dust and dirt particles. Anti-Static Tinsel resists breakage, matting and shedding.

Multiple Applications

Anti-Static Tinsel is effective in the elimination of static electricity generated by moving webs and conveyors used in many industries, including printing, converting, paper, plastics, textiles and office equipment. It works most effectively when placed close but not in contact with the surface to be neutralized.

Anti-Static Tinsel works great when used in winding, extruding, sheeting, slitting, coating, carding, slashing, wrapping and folding operations.
The higher the troubling static charges, the more efficiently the tinsel works.



Tinsel Specifications

100% copper strands and core wires in 1.25" dia. × 36 ft. coils

Part Number: 5020UN

Each box contains 72 ft. of tinsel consisting of two 36 ft. coils

Steinel Heat Guns

With color-coded temperature range keys

Steinel Heat Guns are powerful heat blowers with lightweight ergonomic design, a soft grip handle and quiet operation for convenient long-term use.

Interchangeable temperature keys lock in specific output ranges. Available with choice of 1 to 5 color-coded keys for the right temperature every time. Maintenance-free, factory-sealed motor and high-output turbine fan delivers up to 23 CFM.

Adjustable quick-lock stand stores keys. Tool removes easily for handheld operation. Long-life reinforced element with plug-in feature takes only seconds to change.

This Product Is No Longer Available

High Output

- Powerful turbine blower with air delivery rate up to 23 CFM
- Color-coded keys for the right temperature every time
- Maintenance-free, factory-sealed motor

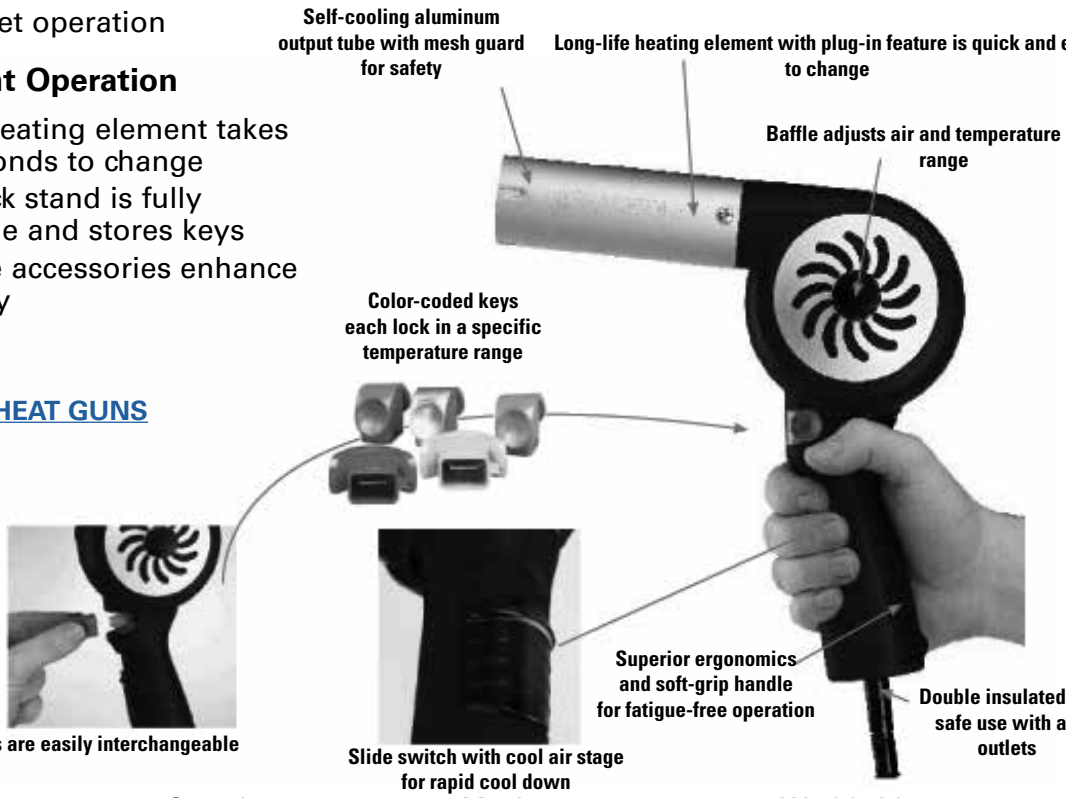
Superior Ergonomics

- Lightweight, well balanced design
- Soft grip handle with convenient slide switch (Off/Cool/Hot)
- Ultra-quiet operation

Convenient Operation

- Plug-in heating element takes only seconds to change
- Quick-lock stand is fully adjustable and stores keys
- Available accessories enhance versatility

STEINEL®



STEINEL HEAT GUNS

D

Steinel Heat Guns

With color-coded temperature range keys

STEINEL HEAT GUNS

Key Color	Temperature Range
Blue	200°F – 300°F
Gray	300°F – 500°F
Yellow	500°F – 750°F
Orange	750°F – 1000°F
Red	1000°F – 1200°F

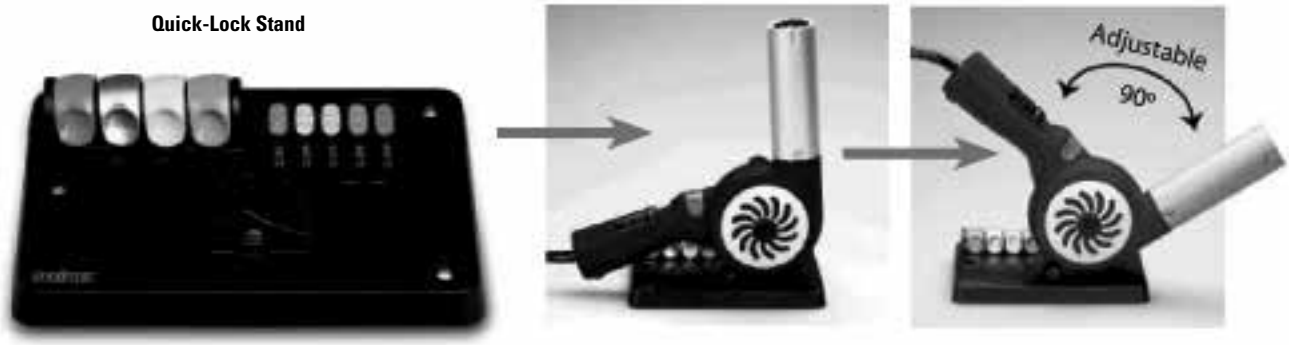
This Product Is No Longer Available

STEINEL®

General Specifications

Dimensions (h × w × d).....9½" × 5" × 9½"
Weight.....2.4 lbs
Voltage.....120 VAC/60 Hz
Output.....1750 W
Temperature range.....200°F – 1200°F (all five keys)
Airflow rate .....Up to 23 CFM, adjustable baffle
Power cord .....Industrial grade rubber, 6 ft. length

Quick-Lock Stand



Fully adjustable quick-lock stand conveniently stores temperature keys. Tool removes easily for handheld operation.

HG1750 Professional Heat Gun Kit

Includes:
Heat gun, all five temperature range color keys, and adjustable quick-

Blower Accessories				
Item	¼" (7mm) Reducer	8" (200mm) Spreader	Large Reflector	Small Reflector
Usage	For pinpoint heat	For films and packaging	For shrink tubing up to 50mm dia.	For shrink tubing up to 20mm dia.
Part Number	**7695**	**7725**	**7705**	**7715**

STEINEL HEAT GUNS

HL1910E

Variable Temperature Electronic Heat Gun
Powerful heat gun with variable temperature and electronic thermocouple control for flexible use and maximum reliability. STEINEL's exclusive DuraTherm™ heating element ensures long life and even heat.

For plastic welding, packaging, automotive, maintenance and other applications requiring variable temperature or pinpoint reduction of heat output.

Three-Stage Switch

Adj. Temp. Wheel

Temperature: 120–1100°F
Stage 1: Cool Air Stage, 120°F/3.6 CFM
2: Variable Temp./10.6 CFM
3: Variable Temp./17.6 CFM
Output: 1500 Watts
Element: DuraTherm™ Ceramic

Part Number HL1910E

Voltage: 120 VAC/60 Hz
Weight: 30 oz.
Warranty: One Year

D

HG2310LCD

Programmable Intellitemp™ Heat Gun with LCD Display
Programmable heat gun with LOC (Lockable Override Control™) of temperature and airflow output settings. LCD display enables temperature selection in 10°F increments.

For use in electronics, aerospace, medical manufacturing and other applications requiring precision control.
Temperature: 20–1200°F
Airflow: Continuously variable 3.6–17.6 CFM
Switch: Cool Air Stage, Variable Temp. and Airflow
Programs: Four Customizable Pre-Set Temp./Airflow Programs
Output: 1600 Watts
Element: DuraTherm™ Ceramic

Part Number HG2310LCD

Two-Stage Switch

Temp. and Airflow Control

Non-slip Soft Stand

Lockable Override Control

Voltage: 120 VAC/60 Hz
Weight: 30 oz.
Warranty: One Year

Steinel Heat Guns

UltraHEAT™

UltraHEAT™

SV 800 Dual Temperature Heat Gun
This model features a dual temperature switch and is designed for general intermittent use.

- Dual Temperature: Low: 600°F; High: 950°F
- Cool Air Stage: Enables rapid cooldown
- Power Cord: Double insulated for safe operation

Part Number SV803

Output: 1300 Watts
Voltage: 120 VAC/60Hz
Certifications: UL/C-UL
Warranty: One Year

UltraHEAT™ II

SV 803 Variable Temperature Heat Gun
Ultra Heat II is a variable temperature heat gun featuring
2 airflow settings with heat and a selectable cool air stage for maximum user control. This model also has a soft grip for comfortable operation.

- Variable: Up to 1050°F
- Temperature: Cool air, 140°F
- 3 Stage Airflow: Low & High Speed
- Power Cord: Double insulated for safe operation

Part Number SV803

Output: 1400 Watts
Voltage: 120 VAC/60Hz
Certifications: UL/C-UL
Warranty: One Year

UltraHEAT™ Kit

SV 803K Variable Temperature Heat Gun Kit
Kit includes:

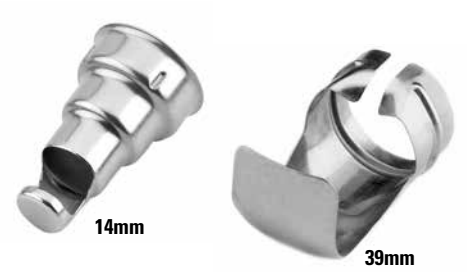
- SV 803 Heat Gun
- Heavy-duty carrying case
- 75mm spreader nozzle
- 39mm reflector nozzle

Part Number SV803K

STEINEL ACCESSORIES

Reflector Nozzles

Reflector Nozzles direct hot air around pipes and tubing for
even heating. Use 14mm on ELECTRONIC heat guns only.



Reduction Nozzle

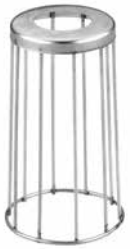
Provides a concentrated stream of hot air for precision welding or soldering. May be used as a base for specialized attachments. Use on ELECRONIC heat guns only.

D

Wire Protection Tube

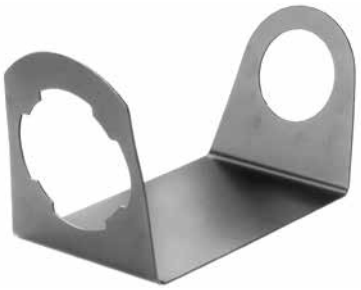
Offers added safety by preventing accidental contact with hot nozzles.

Wire Protection Tube Part Number 7402



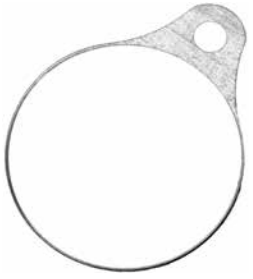
Metal Stand

Gun stands offer the flexibility of hands-free operation, optimum efficiency and maximum safety for most
STEINEL heat guns.



Hanger

Overhead hangers offer the flexibility of hands-free operation, optimum efficiency and maximum safety for most
STEINEL heat guns.



Hyde® Brass Scrapers

Six Models to Choose From!

Solid brass spring steel scrapers have knife-sharp front edges that will not nick or damage expensive machine components.

Polished and lacquered full-strength brass scrapers are non-sparking, non-corrosive & non-magnetic.

Tough nylon handles are secured to full length brass blade (except models 12040 & 12055 which
are not full length but extend well into the handle portion) with large brass grommets.

Keep plenty of these time-savers on hand!

DIG-IT TOOL

Scrape, dig, chip, chop, slice & dice! The all brass Dig-It Tool can take it! Takes the place of several other tools used for cleaning screws, barrels, tips, nozzles, etc. Once you get one, you'll never want

HYDE BRASS SCRAPERS

Brass Scrapers

Part Number	Blade Size (W × L)	Overall Length
2080	1¼″ × 3⅝″	7⅝″
2320	2″ × 3⅝″	7⅝″
2420	3″ × 4⅝″	8″
2975	3″ × 4⅝″	8″
12040	1¼″ × 3⅝″	11½″
12055	3⅛″ × 4¼″	12½″

Brass Rod with Replaceable Tips

Brass Rod with Replaceable Tips

Replacement brass tips... 5⁄16″ dia. with fine point... when the old one wears out, simply unscrew it and insert the new one... takes only a few seconds

Tough, permanent ½″ dia. steel rod... anti-rust finish... never wears out.

5⁄16″ dia. replaceable brass rod... machined to fine point... hand threaded onto permanent steel rod.

- Remove frozen sprues ... clean out runners ... a hundred uses!
- Handle never mushrooms or wears out!
- Get one for each machine

Part Number	
BR1	Complete Set Includes 1 Steel Rod plus 3 Replaceable Brass Tips
BR2	Replaceable Brass Tips

BRASS MOLD TOOLS

D

Brass Rods and Scrapers

Part Number	Diameter	End Length (Including Handle)
HMT0B	1⁄8″	Straight-Pointed End, 12″
HMT1C	1⁄4″	90° Bend-Pointed End, 14″
HMT1A	1⁄4″	Straight-Blunt End, 14″
HMT1B	1⁄4″	Straight-Pointed End, 14″
HMT2A	3⁄8″	Straight-Blunt End, 14″
HMT2B	3⁄8″	Straight-Pointed End, 14″
HMT3B	3⁄8″	Straight-Pointed End, 17″
HMT3A	3⁄8″	Straight-Blunt End, 17″
HMT5	–	1⁄8″ x 1″ Flat Scraper - Sharp Edge, 12″
HMTZ	–	Brass Mold Tool Set B (1 each of items above)

Bronze Sprue Puller Tools

Features:

- Strongest forged bronze alloy - Ampco 45, Alloy 630, AMS 4640
- Non scratch - ideal for removing sprues and parts without damaging mold surfaces
- Non spark - for work around fuels, solvents and other flammable chemicals.
- Non magnetic - for work around MRIs and magnets
- Corrosion resistant for work outdoors, marine use and corrosive environments
- Thermal insulating, soft touch foam grip to reduce fatigue and CTDs
- Longer double ergonomic handles for high leverage, less operator force
- Easily re-sharpened

BRC9

BRCR9

BRD8

BRDS8

BRG8

BRL8

BRL9

BRS9

BRSL8

BRT8

BRONZE SPRUE PULLER TOOLS

Part Number	Description
BRC9	Bronze 9" Curved Nose Pliers
BRCR9	Bronze 9" Pocketed Pliers
BRD8	Bronze 8" Oval Cutters
BRDS8	Bronze 8" Diagonal Oval Cutters
BRG8	Bronze 8" Oval Curved Pliers
BRL8	Bronze 8" Short Nose Pliers
BRL9	Bronze 9" Long Nose Pliers
BRS9	Bronze 9" Shear, Long Grip Combo
BRSL8	Bronze 8" Shear, Cut, Grip Combo
BRT8	Bronze 8" Oval Pliers

Mold Pry Bars

MOLD PRY BARS

- Heat-treated to Rc 52–54
- Heavy-duty forged steel
- Rust-resistant black oxide
- Preferred by many molders for their toughness and balance
- Smooth finish tapers
- In-stock at low prices
- Same brand as sold by others... only we charge less!
- Made in U.S.A.

Complete Kit contains one of each tool - Model Number PBK999

For Pry Bars sold separately reference items below

Angle Head Bar
20″ Long • 5⁄8″ Hex
Stock Wt. 1 lb. 6 oz.
Part Number 7025

Rolling Head Bar
18″ Long • 5⁄8″ Hex
Stock Wt. 1 lb. 9 oz.
Part Number 7032

Radius Head Bar
18″ Long • 5⁄8″ Hex
Stock Wt. 1 lb. 4 oz.
Part Number 7035

D

Economy Mold Pry Bar w/ Handles

- Heavy duty set, high-alloy steel
- Fully heat-treated
- Lightweight design
- Powerful leverage
- Comfortable grip
- Includes sizes: 8″, 14″, 18″, 24″*
- Lifetime warranty

Part Number
PBK400H

Rolling Head Pry Bar Set

- Heat-treated chrome-vanadium steel
- Rolling head/pointed head
- Anti-rust black oxide finish
- Align, lift, pry

PBK400 Kit Contains:
1 – 6″ OAL, 5⁄16″ dia., 2.3 oz.
1 – 12″ OAL, 1⁄2″ dia., 7.9 oz.
1 – 16″ OAL, 5⁄8″ dia., 13.7oz.
1 – 20″ OAL, 3⁄4″ dia., 1.5 lb.
Not Sold Separately

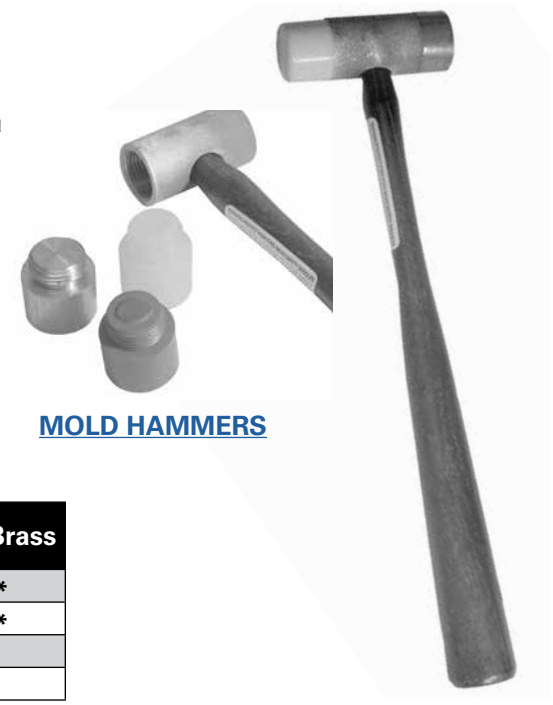
Mold Hammer

Mold Hammer with Interchangeable Tips

- Tips are removable and interchangeable
- Will not mar metal or plated finish
- Tips available in medium or hard vinyl, tough nylon, brass & steel
- Non-sparking
- Non-magnetic

Custom Mold Hammers - Easy to order - first choose a handle size, then choose the tips which will work best for your specific application.

Special price on the most popular combination:
1" Hammer with 1 Nylon Head & 1 Brass Head
Part Number SWH16



MOLD HAMMERS

Handles

Part Number	Size
HH16	1"
HH18	1⅛"
HH20	1¼"
HH24	1½"

Replacable Tips

Part Number	Head Dia.	R - Red Vinyl Med	G - Green Vinyl Hard	N - Green Vinyl Hard	B - Brass
RT16*	1"	*	*	*	*
RT18*	1⅛"	*	*	*	*
RT20	1¼"	NA	*	*	
RT24	1½"	NA	*	*	

*Add R, G, N, B or S to complete part number and indicate tip material

Dead Blow Hammers

Dead Blow Hammers provide the perfect solution to non-marring, non-striking force.

Features:

- Extra-durable polypropylene casing
- Shot-filled interior for more driving force
- Non-marring, non-sparking polypropylene casing
- Textured safety grip with flanged butt

As the head strikes the work, the shot moves forward for dead blow impact.

DEAD BLOW HAMMERS

Part Number	Size
DBH10	1 lb.
DBH15	1.5 lbs.
DBH20	2 lbs.
DBH30	3 lbs.
DBH40	4 lbs.

Ball Pein Hammer

- 16 oz. size
- Forged and tempered
- Polished
- 11″ wood handle

Part Number BH16

BALL PEIN HAMMERS

Economy Rubber Mallets

- Non-marking
- Large grip, hardwood handles

RMA32 32 oz. 14″ OAL, 2¾″ dia.

RMA16 16 oz. 12″ OAL, 2⅛″ dia.

RMA8 8 oz. 10¾″ OAL, 1⅝″ dia.

ECONOMY RUBBER MALLETS

D

Nozzle Wrenches

NOZZLE WRENCHES

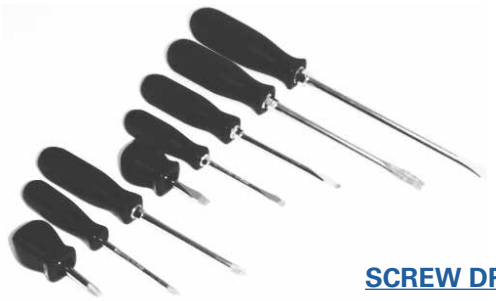
Six-point box to help eliminate possible damage to nut. Extra clearance in head diameter to facilitate use with flange connections. Heavy duty for use with hammer for extra tightness or where impact is needed to loosen frozen nozzles.

*SFBW1 is a 12-point wrench.

Opening (A/F)	Head O.D.	OAL	Wgt. (lbs.)	Use with	Part Number
7/8″	1 3/8″	7 1/2″	0.6	regular tips	SFBW1*
1 1/16″	1 25/32″	9 7/8″	1.9	extended tips	SFBW2
1 1/4″	2″	10 1/4″	2.1		SFBW3
1 7/16″	2 17/64″	10 9/16″	2.6		SFBW4
1 5/8″	2 31/64″	11″	2.9	bodies	SFBW5
1 13/16″	2 21/32″	11 5/16″	3.5		SFBW6
2″	3 1/32″	11 11/16″	4.0		SFBW7
2 3/16″	3 9/32″	12″	5.2		SFBW8
2 3/8″	3 13/32″	12 3/8″	6.0		SFBW9
2 9/16″	3 3/4″	12 11/16″	6.6	adaptors	SFBW10
2 3/4″	4 11/64″	13 1/16″	7.5		SFBW11
2 15/16″	4 23/64″	13 7/16″	7.9		SFBW12
3 1/8″	4 31/64″	13 13/16″	9.4		SFBW13
3 1/2″	4 31/32″	14 1/8″	10.5		SFBW14
3 7/8″	5 35/64″	14 1/2″	13.3		SFBW15

Eight Piece Screw Driver Set

- Chrome-vanadium steel
- Vinyl handle - resistant to moisture, grease, oil and most solvents
- Specially heat treated for safety and strength
- Comfortable grip



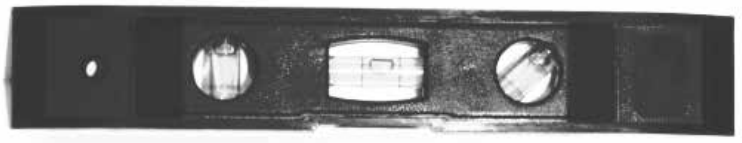
Set Includes:
Flat 3/8" × 8", 5/16" × 6", 1/4" × 4"
3/16" × 3 1/4" × 1½"
Phillips #2 × 4", #1 × 3",
#2 × 1½"

Part Number SD8

SCREW DRIVER SET

Torpedo Level

- 3 vials
- Shatter resistant
- Part Number TL9



TORPEDO LEVEL

25 pc. 1/2" Drive Socket

Chrome Vanadium Steel

Set Contains:

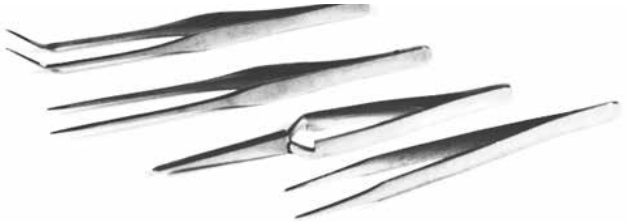
- ½" drive S.A.E.
  18-piece standard 6-point sockets
  including: 3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 31/32", 1", 1–1/16", 1–1/8", 1–3/16" and 1–1/4"
- 6-piece accessories
  including - 10" Rachet Handle, 10" Sliding T-bar, Speeder Handle, Universal Joint, 5" & 10" Extension Bars
- Plastic case

DRIVE SOCKET SET

Tweezers

TWEEZERS

- 4-piece set
- Stainless steel
- Perfect for getting parts out of tight spaces!
- Part Number TS4

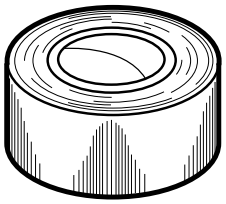


Silver PVC Duct Tape

"The Handyman's Secret Weapon!"

- 2″ × 180′ (60 yards)
- Strong adhesion
- Cloth-backed
- High-tensile strength
- Great for use with dryer and loader hose
- Great value

Part Number RDT180



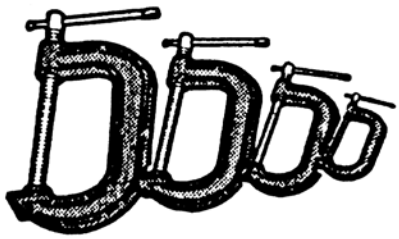
SILVER PVC DUCT TAPE

4 Pc. "C" Clamp Set

- Large steel clamps: 3″, 4″, 5″ & 6″
- Bronze-plated alloy steel screw shafts
- Sliding T-handles

Sold separately:
- 3″ - CCP3
- 4″ - CCP4
- 5″ - CCP5
- 6″ - CCP6

Set of all four sizes Part Number CCS400



4 PEICE "C" CLAMP SET

D

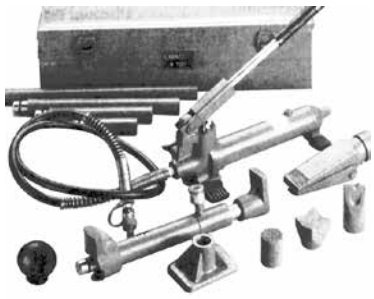
4 & 10 Ton Porta-Powers

4&10 TON PORTA-POWERS

- 4 & 10 ton
- Excellent for raising and positioning machinery & parts. Attachments push, pull & lift.

Part Number HRS4K (4 Ton)

Part Number HRS10K (10 Ton)



Telescoping Mirror

TELESCOPING MIRROE

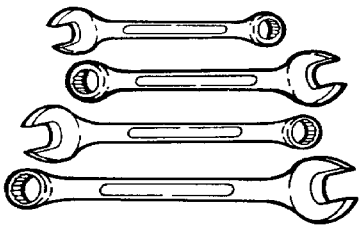
- Stainless steel shaft with pocket clip
- Length 19–½″ extended; 4–⅞″ closed
- Mirror is 1–¼″ diameter

Part Number TM100

4 Pc. Xtra Large Wrench Set

- For the big jobs - heavy cast chrome
- Sizes 2–⅛", 2–¼", 2–⅜", 2–½"

Part Number SJW400



4 PIECE XTRA LARGE WRENCH SET

⅜" Micrometer Torque Drive Ratchet/Wrench

- Chrome-plated alloy steel
- No pointer or dial to monitor
- Inch pound range 120 to 960
- Right-hand direction click only

Part Number MATW1

TORQUE DRIVE RATCHET/WRENCH

½" Micrometer Torque Drive Ratchet/Wrench

- Chrome-plated alloy steel
- No pointer or dial to monitor
- Foot pound range 30 to 150
- Right-hand direction click only

Part Number MATW3

TORQUE DRIVE RATCHET/WRENCH

21 Pc. ¾" Driver Set

- Sixteen sockets: ⅞" to 2"
- Chrome-plated
- Heat-treated polished steel
- Includes: 20" rachet, 20" breaker bar and 3" & 6" extentions

Part Number BSS210

21 PIECE DRIVER SET

7 Pc. SAE Nut Driver Set

- Color-coded handles
- 3/16", ¼", 5/16", 11/32", ⅜", 7/16", ½"

Part Number ND70

Great Neck
Quality Hand Tools Since 1919

7 PIECE DRIVER SET

D

6 Pc. Nut Driver Set

- Plated-finish
- Heavy-duty, shock-resistant plastic handles
- 3/16", ¼", 5/16", ⅜", 11/32", 7/16"

Part Number CN60

Great Neck
Quality Hand Tools Since 1919

6 PIECE DRIVER SET

9 pc. Metric Hex Key Wrench Set

Long Arm

HEX KEY SETS (ALL)

- Chrome molybdenum steel
- Hardened and tempered for strength
- Clamshell
- Sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm

Part Number HK9ML

9 pc. Metric Hex Key Wrench Set

Short Arm

- Chrome molybdenum steel
- Hardened and tempered for strength
- Clamshell
- Sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm

Part Number HK9MS

13 pc. SAE Hex Key Wrench Set

Long Arm

- Chrome vanadium steel
- Hardened and tempered for strength
- Plated handle
- Black oxide finish
- Clamshell
- Sizes: 0.050″, 1/16″, 5/64″, 3/32″, 1/8″, 9/64″, 5/32″, 3/16″, 7/32″,1/4″, 5/16″, 3/8″

Part Number HK13L

13 pc. SAE Hex Key Wrench Set

Short Arm

- Chrome vanadium steel
- Hardened and tempered for strength
- Plated handle
- Black oxide finish
- Clamshell
- Sizes: 0.050″, 1/16″, 5/64″, 3/32″, 1/8″, 9/64″, 5/32″, 3/16″, 7/32″, 1/4″, 5/16″, 3/8″

Part Number HK13S

9 Pc. Folding Hex Key Set

- Chrome vanadium steel
- Hardened and tempered for strength
- Plated handle
- Black oxide finish
- Sizes: 0.050″, 5⁄64″, 7⁄64″, 9⁄64″, 3⁄16″, 1⁄16″, 3⁄32″, 1⁄8″, 5⁄32″

Part Number HEK9C

Great Neck
Quality Hand Tools Since 1919

Telescoping Magnet

- Stainless steel shaft with pocket clip
- Length 18–½″ extended; 4–⅞″ closed
- Magnet is ¼″ diameter

Part Number TM200

TELESCOPING MAGNET

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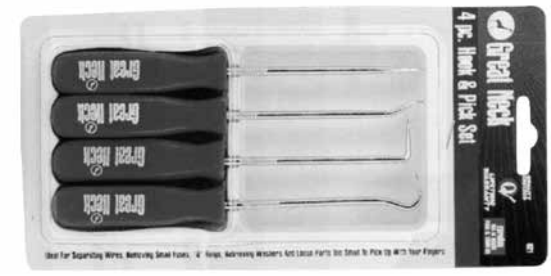
4 Pc. Pick & Hook Set

Part Number 621

Great Neck
Quality Hand Tools Since 1919



PICK & HOOK SET

25ft. Economy Tape Measure

- Steel
- S.A.E./metric
- Notched end hook
- Thumb lock

Part Number TP25L

TAPE MEASURE

Industrial Mini Flashlight

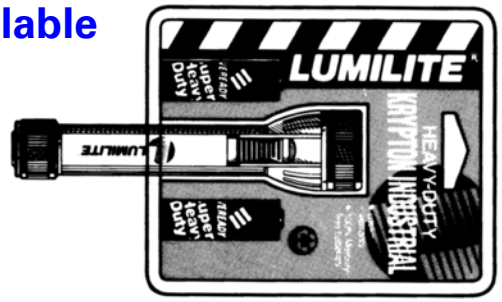
FLASHLIGHTS (ALL)

Krypton® Industrial Mini Flashlight

This product is no longer available

- Water-resistant, non-corrosive
- Lifetime warranty
- 2 AA -100% mercury-free batteries included

Part Number MFL5422



Penlight Flashlight

Stylus 3 Series® Flashlights

- For those hard-to-reach areas!
- Aluminum cases are waterproof
- Available in black, silver or gold
- Batteries included!

Part Number	Description
65012	Stylus 3 Silver/White LED
65018	Stylus 3 Black/White LED
65024	Stylus 3 Gold/White LED
65030	6-Pack AAAA Batteries

Battery	Bulb	Casing
3 AAAA alkaline batteries	100,000 hour lifetime, hi-intensity light emitting diode (LED) solid-state bulb	6000 series temperated aircraft aluminum with anodized finish. Non-slip knurled grip

High Intensity Flexible Light

The flexible shaft bends so it will go around corners into small areas where most lights will not fit.
Both models feature a high intensity 3⁄16″ diameter lamp.

- 2 models to choose from 16″ - 5000 candle power & 24″ - 10,000 candle power
- Thin flexible shaft
- Amazing brightness from a tiny 3⁄16″ diameter high-intensity bulb
- Goes where ordinary light won't!
- Great value!

Part Number	Candle Pwr.	Description	Overall Length	Shaft Length
BAL10150A	5000	Standard Model	16″	10″
BAL12100		Replacement Lamp		
BAL15150A	10000	Krypton Long Reach	24″	15″
BAL12110		Replacement Lamp		

Industrial Blowguns

Lever Blow Gun Series

BG Series Blowguns combine durability, excellent performance and safety to meet your specific cleaning or drying applications.

Features:

- Lever activation styles
- 10 different nozzle choices
- Blow gun kit provides versatility
- Patented quick-disconnect nozzle adapter
- ¼" NPT inlet
- OSHA compliant @ maximum 150 PSI inlet pressure
- Includes: BGL116482 - Gun only
- BGLCPLR - Quick-change nozzle
- BGL25 - High-flow nozzle

INDUSTRIAL BLOWGUNS

ACCESSORIES

Accessories

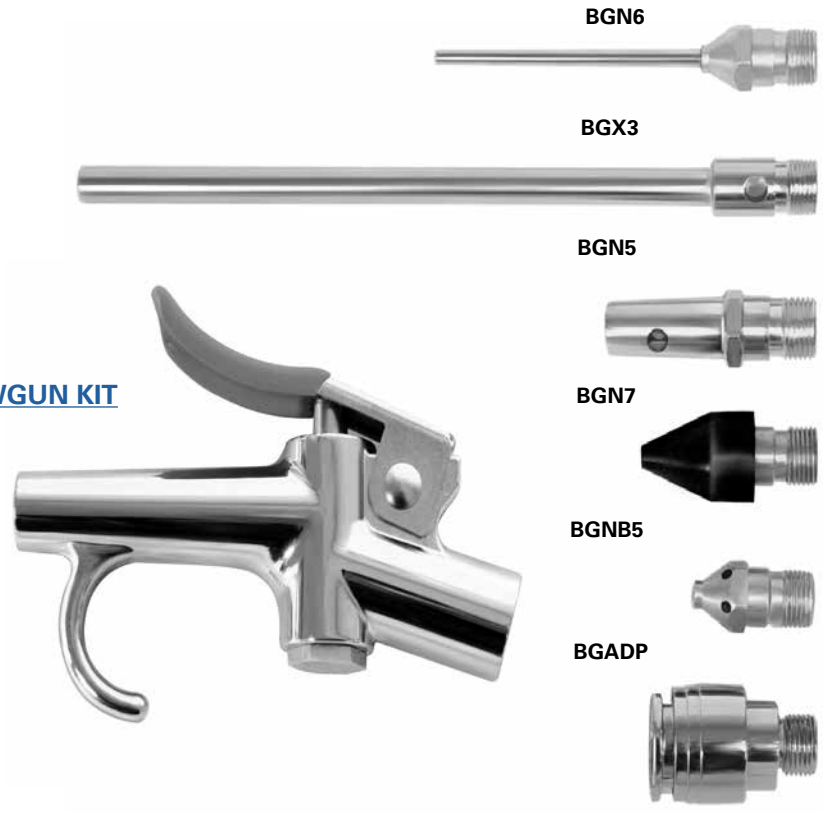
	Part Number Nozzle	Description/Nozzle only	Flow CFM	Outlet Blocked	Noise Level dBA
	BGN1	Standard Nozzle for general blowing & drying applications	17.5	20	89.5
	BGNB5	Air Screen Nozzle reduces chip flyback	5	18	85
	BGN5	High Flow Safety Nozzle for general dusting & chip removal	20	20	89
	BGX3	3″ Extension Nozzle for extending reach	15	21	85.5
	BGX6	6″ Extension Nozzle for extending reach	14.1	22	84
	BGX12	12″ Extension Nozzle for extending reach	13.3	24	85.5
	BGADP	Quick-Change Nozzle Adapter	–	–	–

D

Industrial Blowgun Kit

The BGLKIT contains five of the most popular nozzles for industrial and automotive uses. This kit includes a high-quality, lever-operated heavy-duty blow gun featuring a patented quick disconnect nozzle adapter which allows users to switch nozzles quickly and easily. This multi-use kit contains a high-flow safety nozzle, six-inch extension safety nozzle, rubber tip nozzle, needle tip nozzle, and air-screen safety nozzle. For handy storage, a clear vinyl compartmentalized snap pouch is included. Ideally suited as a counter sale product.

To order the complete kit, use **Part Number BGLKIT**



INDUSTRIAL BLOWGUN KIT

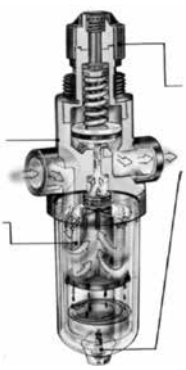
Piggyback Filter Regulator

FILTER REGULATOR

Combined filter and regulator for limited space applications. Its panel mounting dimensions are interchangeable with most competitive models.

Body Material: Body is constructed of 30% glass reinforced thermoplastic and zinc-plated steel inserts.

Filter Element: Standard 20 micron porous plastic filter element removes dirt, grime, pipe scale and most solid material.



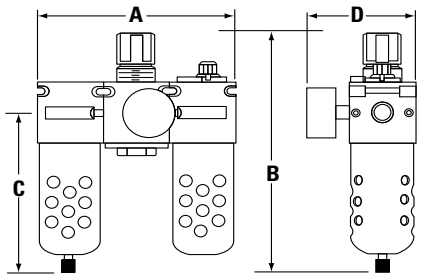
Adjustment Knob: The non-rising, self-locking adjustment knob cannot be vibrated loose.

Drain: A tire valve is employed to drain the contaminants from the bowl while it is pressurized.

- ¼" NPT in/out
- Polycarbonate bowl, standard; chemical resistant bowl, optional
- Optional pulse drain dumps excess water automatically
  Includes ⅛" adapter for drain line.

Part Number	Description
129121-400G	Filter Regulator w/Gauge
29668	Mounting Bracket
104094	Nut For Bracket

Premium Filter Regulator



	A	B	C	D
FRL	6 9/16	7 7/8	5 9/64	3 7/32
BL	6 9/16	8 1/8	5 9/64	3 7/32

PREMIUM FILTER REGULATOR

Filter/Regulator	
Part Number	**Port Sizes**
BL04	¼" Female
BL06	⅜" Female
BL08	½" Female

- Filter, regulate, lubricate
- Filter rating: 40 micron
- For pressures to 150 PSIG
- Temp, range 40° to 120°F

Filter/Reg./Lubricator	
Part Number	**Port Sizes**
FRL04	¼" Female
FRL06	⅜" Female
FRL08	½" Female

D

The QUBE Lifetime Guarantee by WATTS FluidAir guarantees your QUBE product for life at no extra cost. If your Watts FluidAir QUBE product ever falls or breaks in proper installations and in proper use, Watts will, at its option, repair or replace the product at no charge or refund your full purchase price of the item. As a condition of this lifetime warranty, you must complete and return a warranty registration card to Watts FluidAir. In the event of failure or breakage return the unit to:

Watts FluidAir, Inc. Customer Service Department
Cutts Road Kitlery, Maine 03904-0902

This shall constitute the exclusive remedy for breach of warranty, and the company shalt not be responsible for incidental or consequential damages, including without limitation damages of other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse air conditions, chemicals, and any other circumstances over which the company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of this product. The company makes no other warranty. All other warranties, oral or written, expressed or implied, including warranties of merchantability or fitness for a specific purpose are hereby excluded and disclaimed. In no event shall the company be liable for incidental or consequential damages.

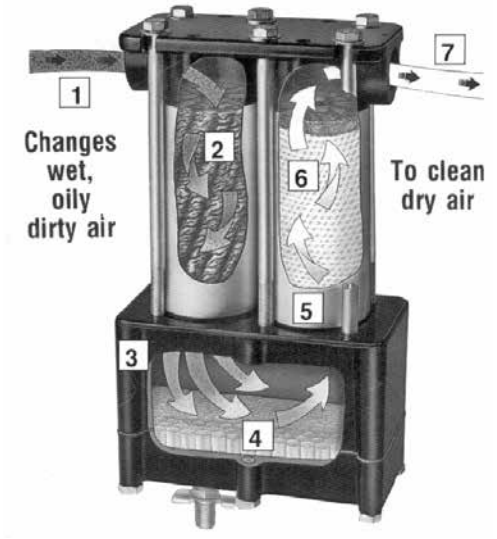
Ultra Pneumatic Filtration

The UPF Extractor®/Dryer is a two-stage air quality filtration system which removes harmful moisture, oil and contaminants from compressed air lines. In addition to reducing downtime and extending service life in pneumatic tools and air-operated equipment, Extractor/Dryers can virtually eliminate "fish-eye", pinholes, blisters, and water problems in spray painting applications.

NOTE: Extractor/Dryers are for point-of-use end use installation, not for installation at the compressor.

How It Works:

1. Compressed air containing tiny particles of dirt, dust, oil, rust and moisture enters the first stage.
2. A coalescing effect occurs as air passes through a cartridge mesh which captures larger particles and causes moisture to form larger droplets.
3. Air velocity lessens as it enters the extraction chamber allowing particles to collect and moisture to condense on the honeycomb.
4. Particle-laden water flows along the bottom & out the drain.
5. Air passes through the second stage which captures the remaining moisture and dirt down to five micron. Air is filtered & dried.
6. Clean, dry air is ready to use.



****Service Kits include:**
1 first and 1 second stage filter, all gaskets and honeycomb insert.

CONTACT US

Part Number	NPTF Size	SCFM Rating	Max. PSI	Add E1 or E2 To Part Number For Filter Only Size H	W	D	Service Kit** Part No.
UPF305	¼″	50	250	8¼″	4″	1¾″	
UPF306	⅜″	50	250	8½″	4″	1¾″	
UPF307	½″	50	250	11½″	5″	1¾″	
UPF310	½″	80	250	11½″	5⅞″	3″	080SK
UPF311	¾″	80	250	14½″	5⅞″	3″	080SK
UPF320	1″	150	250	19″	7⅞″	4⅛″	150SK
Contact DME for sizes to 4" & 2000 CFM.							

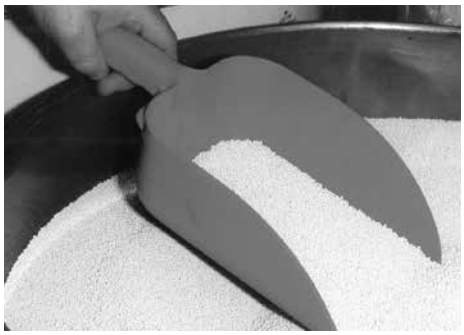
DME Industrial Supplies offers both 13X and 4A Molecular Sieve Desiccants in stock. Due to the particular designs of the resin dryers used in the industry, it is important that the correct sieve is used with the dryer that it was designed for. Unfortunately, DME cannot recommend a desiccant based on either the type of materials you are processing or the type of equipment you have. You may have two different machines from the same manufacturer that will require different desiccants. Equipment manufacturers will typically recommend one of two types: 13X or 4A. Each have advantages when used in the drying process.

Molecular sieve type 13X has a 12% higher water capacity and a larger pore size. This larger pore allows the water to adsorb faster than the 4A and will adsorb larger molecules as well. Depending on the quantity and type of molecules present, these could react on the surface of the 13X during regeneration and not come off, thus reducing the sieve capacity over time. 13X is subject to contamination which renders it ineffective.

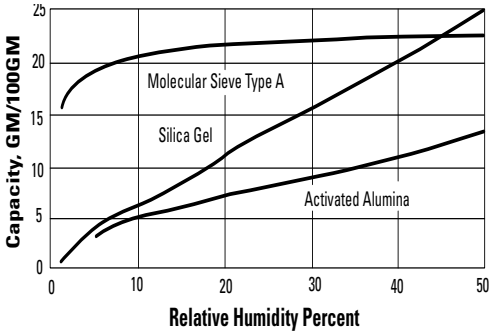
Because of 4A's smaller pore size, it is less subject to contamination. However, because of its lower capacity and smaller pore opening, the rate at which it absorbs water will be lower than with the 13X. Another factor to consider is the bead size. Small beads (8X12 mesh) have a faster rate of water absorption, but they also have a higher pressure drop than the larger (4x8) beads. If you don't know which type of sieve your dryer was designed to use, contact the manufacturer of your equipment for their recommendation. In either case we carry what you need at a fraction the price charged by the OEM. Our desiccant is only the most fresh and pure to assure optimum performance.

Part Number	Bead Size	Mesh Size
13X542	1/8"	4 × 8
13X544	1/16"	8 × 12
4A513	1/8"	4 × 8
4A514	1/16"	8 × 12

DESSICANT



Water Vapor Adsorption at 25°C. Equilibrium Data



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Ethylene Glycol

Inhibited Ethylene Glycol

Ethylene Glycols are used in applications involving secondary cooling and heat transfer, providing freeze and burst protection. Plain water and "antifreeze" type products do not have the proper inhibitor package for these heavy industrial uses.

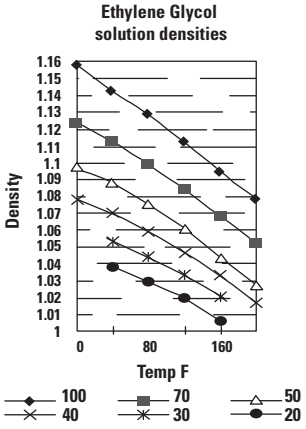
Compared with inhibited glycols, uninhibited glycols oxidize in the presence of air and heat, forming acids. These acids can be corrosive to the metal in a system. Inhibited glycols neutralize the acids formed and thus protect against corrosion.

This product is no longer available

Applications:
Ethylene Glycol Inhibited is almost odorless, easily mixes with water, and is moderately toxic.

Ethylene Glycol Inhibited is effective from –60° to 250°F.

The proper concentration to use is a function of the lowest anticipated temperature. Try to provide protection about 5° lower than this. However, for best corrosion protection do not go below 30% by volume.



INHIBITED

Inhibited Ethylene Glycol	
Part Number	**Container Size**
ELG2-5	5 Gal.
ELG2-55	55 Gal.
ELG2-55	55 Gal.
ELG2-55	55 Gal.

UNINHIBITED

Uninhibited	
Part Number	**Container Size**
ELG5	5 Gal.
ELG55	55 Gal.

- Pure ethylene glycol circulator fluid, no additives
- For use from –40° to +250°F (Dilute)
- Good rust preventative properties
- Non-corrosive, will not build-up
- High flash point, +240°F
- Shipped from stock
- Compare our quality, compare our price!

Therminol XP heat transfer fluid is an extremely pure white mineral oil which provides reliable heat transfer 0° to 600°F. Performance features of Therminol XP include:

- Low fouling - The purity of Therminol XP minimizes fouling as a result of oxidation and degradation of the fluid, provided proper attention is given to system design and operation within the maximum bulk and film temperatures specified.
- Practically non-toxic: As an indicator of purity, Therminol XP meets FDA specifications defined in 21 CFR 172.878 and requirements of United States Pharmacopeia (USP) and National Formulary (NF).
- Thermal stability - Therminol XP is stable to 600°F. Users can expect many years of reliable, trouble-free operation, even when operating continuously at the recommended maximum temperature of 600°F.
- Environmentally friendly - Therminol XP has outstanding regulatory status for those seeking heat transfer fluids which have minimum environmental reporting requirements.
- Therminol XP is used in a wide variety of industries, such as:
- Plastics processing
- Pharmaceuticals
- Specialty chemicals
- Laundries

55 Gallon Drum

5 Gallon Pail

Appearance	Colorless, odorless liquid
Composition	White mineral oil, USP/NF
Flash Point (ASTM D-92)	182°C (360°F)
Fire Point (ASTM D-92)	196°C (385°F)
Autoignition Temperature (ASTM D-2155)	324°C (615°F)
Kinematic Viscosity, at 40°C	23.7 mm^2/s (cSt)
at 100°C	4.06 mm^2/s (cSt)
Density at 25°C	875 kg/m^3 (7.30 lb/gal)
Specific Gravity (60°F/60°F)	0.882
Coefficient of Thermal Expansion at 200°C	0.000892/°C (0.000495/°F)
Average Molecular Weight	350
Pour Point	–29°C (–20°F)
Pumpability, at 2000 mm2/s (cSt)	–20°C (–4°F)
at 300 mm2/s (cSt)	–1°C (30°F)
Minimum Temperatures for	
Fully Developed Turbulent Flow (Re = 10000)	
10 ft/sec, 1-in tube	72°C (162°F)
20 ft/sec, 1-in tube	51°C (123°F)
Transition Region Flow (Re = 2000)	
10 ft/sec, 1-in tube	30°C (85°F)
20 ft/sec, 1-in tube	17°C (63°F)
Boiling Range, 10%	332° C (630°F)
90%	416°C (780°F)
Normal Boiling Point	358°C (676°F)
Heat of Vaporization at Maximum	
Use Temperature 315°C	214 kJ/kg (91.9 Btu/lb)
Optimum Use Range	–20°C to 315°C (0°F to 600°F)
Maximum Film Temperature	330°C (625°F)
Pseudocritical Temperature	542°C (1007°F)
Pseudocritical Pressure	15.2 bar (220 psia)
Pseudocritical Density	280 kg/m3 (17.5 lb/ft3)
Vapor Pressure, psia @	
200°F	0.0005
300°F	0.003
400°F	0.147
500°F	0.967

Therminol XP™

HEAT TRANSFER FLUID

Part Number	Container Size
HTFXP5	5 Gallon
HTFXP55	55 Gallon

Shipping weight: 5 gallon/41 Lbs, 55 gallon/465 Lbs

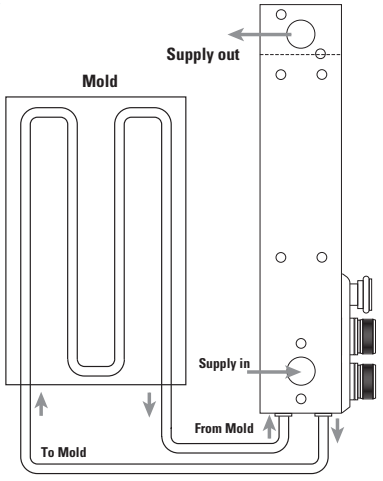
Flow Regulator

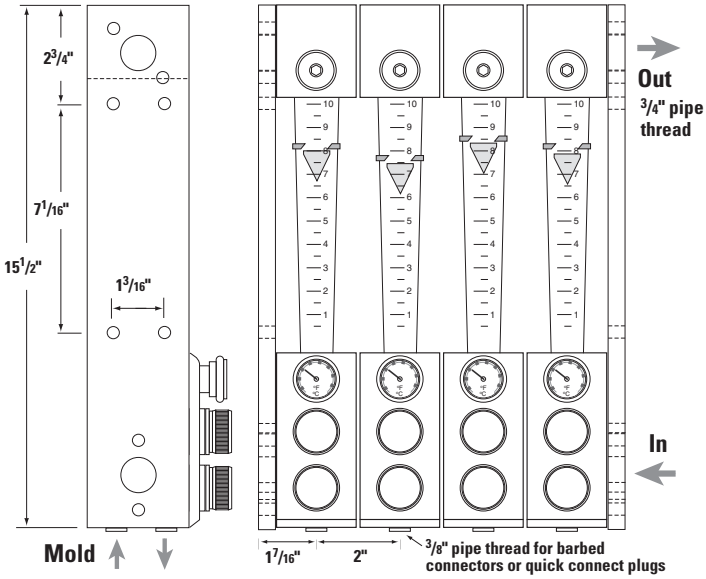
Flow meters for monitoring and regulating flow through mold.

Larger model 2.65 or 5.3 gpm flow rates

- Up to 210°F/100°C
- 180 PSI
- Manifold blocks made from tough glass-filled nylon construction. Aluminum side plates.
- May be used with ethylene glycol
- From glass-filled nylon
- Cleaning brush included
- Brass valves (push-lock)
- Temp gauge in each tube 0 to 220°F
- Flow rate: 0 to 2.65 G.P.M. (10 liter/min.)
  0 to 5.3 G.P.M. (20 liter/min.)

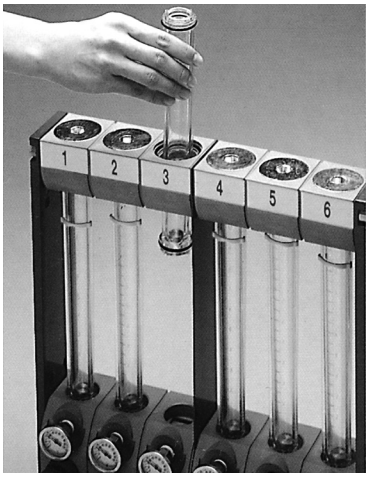
FLOW REGULATOR



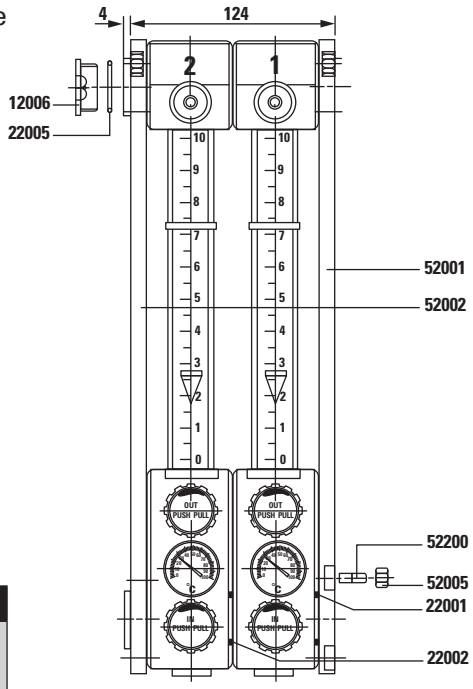


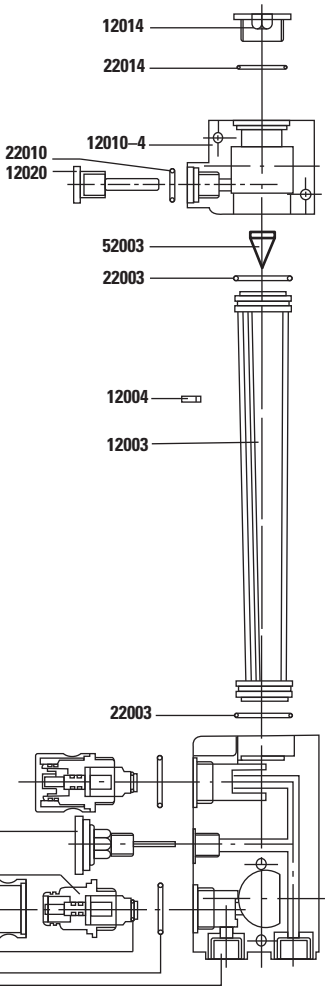
Easy cleaning capability without dismantling (access to tubethrough removable top plug.)

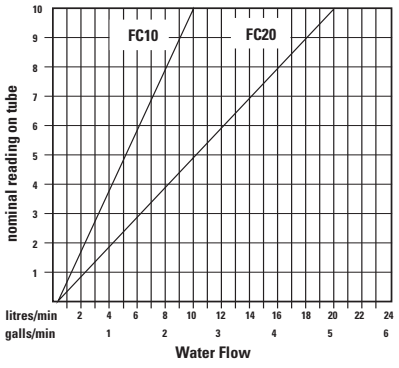
Easy cleaning capability without dismantling (access to tube through removable top plug.)



Flow System Matic Water Flow Regulators







Part Number	Description
12001–2	Lower Housing
12010–4	Upper Housing
12003	Sight Glass
12004	Reference Ring
12020	Fixed Plug
12006	Plug ¾″ NPT
19012	Hand Wheel
99014	Control Valve
22001	O–Ring
22002	O–Ring
22003	O–Ring
22014	O–Ring
22005	O–Ring
29012	O–Ring
29016	O–Ring
30011	Thermometer
52001	R. Side Plate
52002	L. Side Plate
52200	Screw
52005	Nut
52003	Cone
12014	Plug
22010	O–Ring

Larger Model 2.65 or 5.3 GPM Flow Rates

Description	W (in)	Part Number
Two Zone Assembly	4.88″	**FR2**
Three Zone Assembly	6.93″	**FR3**
Four Zone Assembly	8.98″	**FR4**
Five Zone Assembly	11.06″	**FR5**
Six Zone Assembly	13.15″	**FR6**
Eight Zone Assembly	17.24″	**FR8**
Ten Zone Assembly	21.46″	**FR10**
Twelve Zone Assembly	25.55″	**FR12**

Flow Cones available

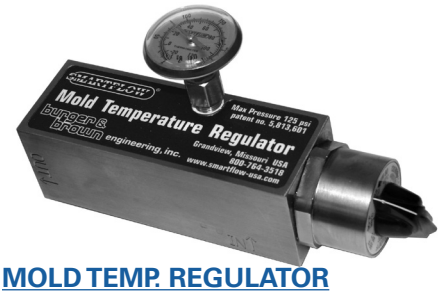
Max Gallons/Min.	Part Number
2.64 (10 L/min)	**FC10M**
5.3 (20 L/min)	**FC20M**

Spare Flow

Max Gallons/Min.	Part Number
2.64 or 5.28 GPM	**12003**
Flow tube seals (10)	**22003**

Mold Temperature Regulator

The Mold Temperature Regulator is a compact, simple-to-operate device for heating and maintaining constant mold temperature. It can be difficult to settle a mold into a steady-state condition. Now with the innovative Mold Temperature Regulator, your work is done by your new best friend. You can heat your mold using otherwise wasted energy, and the Mold Temperature Regulator holds your temperature on point regardless of variables thrown its way.



MOLD TEMP. REGULATOR

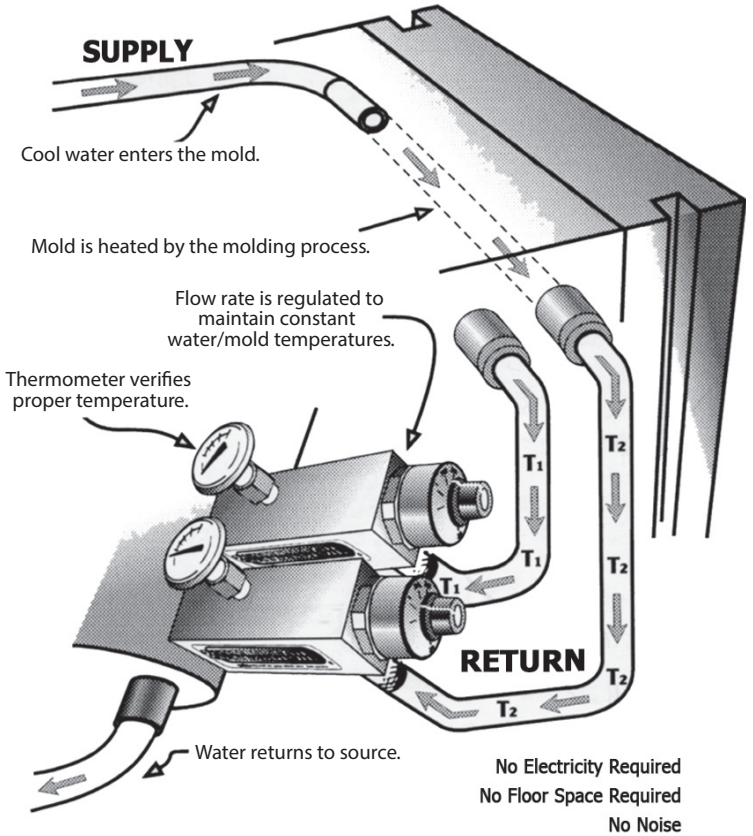
Part Number	Inlet/Outlet	Width	Length	Height	PSI	Weight
WDT2N2N4	¼" NPT inlet and ½" NPT outlet	2.95"	6.02"	1.72"	150	3 lbs.
WDT2S2P2	¼" quick-connect coupler and plug	2.95"	6.02"	1.72"	150	3 lbs.
WDT2S3P3	⅜" quick-connect coupler and plug	2.95"	6.02"	1.72"	150	3 lbs.

- It's unaffected by pressure changes
- It's unaffected by supply water temperature changes
- It reduces the headaches of maintaining different temperature zones
- It's nearly maintenance free
- It saves money up front and conserves energy year-round

Unlike conventional mold temperature controllers, this unit requires no power to operate, relying instead on the tried and true laws of physics to modulate the temperature of molds.The Mold Temperature Regulator indirectly controls mold temperature by modulating the rate of flow of coolant through the mold. It installs, power-free, right on the coolant line exiting the mold. On a basic level, it's really just a fancy thermostat - faster flow removes more heat, cooling the mold; slow flow removes less heat, heating the mold.

On a more technical level, the Mold Temperature Regulator uses thermal expansion with a proprietary heat exchange fluid. The user picks a setpoint with a dial on the Mold Temperature Regulator; a conical valve moves toward or away from the seat to modulate flow, depending upon the setpoint. The device is designed with controlled flow, so that some fluid is always flowing through the Mold Temperature Regulator - that is, you can't shut off coolant flow with the Mold Temperature Regulator. The temperature dial on the Mold Temperature Regulator allows water temperature setpoints from 80°F to 120°F.

Automatically adjusts for variations in jet water temperature and pressure.

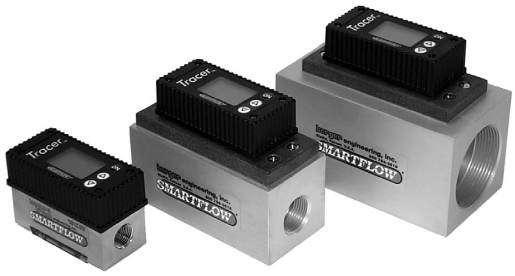


No Electricity Required
No Floor Space Required
No Noise

Tracer with Fluid Characteristic Indication (FCI) Technology

With the new Tracer Electronic Flowmeter, it is easier than ever to know exactly how much water is flowing through your water lines. In addition to flow rate, the Tracer™ provides a precise temperature reading of the water. It will calculate BTU's and display "TFLOW" message when Turbulent Flow is present. With the new information the Tracer™ will provide, you can manage your processes more completely and accurately.

ELECTRONIC FLOWMETER



Part No.	Inlet/Outlet	Temp. Range	Temp. Accuracy	Flow	Flow Accuracy	Weight
DD3B	⅜" NPT inlet and outlet	32°–180°F	+/- 2%	.5 – 8.0 GPM	+/- 5%	1.5 lbs.
DD3E	⅜" quick-connect coupler and plug					
DD6B	¾" NPT inlet and outlet			2-20 GPM		2.5 lbs.
DD6E	¾" quick-connect coupler and plug					
DD8B	1" NPT inlet and outlet			3-30 GPM		
DD8E	1" quick-connect coupler and plug					
DD12B	1½" NPT inlet and outlet			6.5-60 GPM		3.9 lbs.
DD12E	1½" quick-connect coupler and plug					
DD16B	2" NPT inlet and outlet			10-110 GPM		
DD16E	2" quick-connect coupler and plug					

Know Your Flow
There is no need to guess if water is flowing through each line or zone of a mold. Now you can know exactly how much is flowing. Your flow rate is displayed in 100ths of a gallon per minute. If you prefer, flow is displayed in liters per minute.

Know Your Water Temperature

In addition to providing current flow rate data, the Tracer™ also provides the current water temperature at the flowmeter. Used on the supply side, this can verify precise water temperature as it enters the mold. Put the Tracer™ in the out or return side and measure water temperature exiting the mold. Temperature can be displayed in either Fahrenheit or Celsius units, user selectable.

Know Your BTU's
The setup mode of the Tracer™ allows you to enter the incoming or supply water temperature. Then with the Tracer™ attached to the return water line, it will calculate BTU per minute.

Know Your FCI's
Tracer flowmeter displays a special message ("TFLOW") when Turbulent Flow is present in your cooling water. Turbulent flow is the condition of optimum cooling efficiency. Tracer flowmeter calculates this condition based on the cooling water line size, water temperature and percentage of glycol (0, 10% 20% or 30%) as input in the setup mode.

Versatile
The Tracer™ can be mounted in any position. It can accept flow in either direction. 3/8" units include a sight glass on the back for visual verification of flow. Select the optional quick-connect fittings and use the Tracer™ as a test kit to diagnose your water line problems.

Digital LCD Display
The digital display Tracer™ is battery powered and has an easy-to-read LCD which displays flow rate, temperature or BTU's at the touch of a button. A programmable auto shutoff feature extends battery life.

Electronic Flowmeter

Tracer Switching Flowmeter

Features and Benefits

- Programmable SPDT switch tied to high or low flow, or high or low temperature conditions to help protect equipment and processes. See Know Your BTUs and FCI on previous page.
- Remotely powered for low maintenance operation
- Bi-directional flow reading makes installation simple and convenient
- Metric or English units for flow and temperature are user-selectable
- Corrosion-resistant wetted parts assure long-lasting durability
- 3⁄8″ through 2″ NPT(F) inlet/outlet installs easily into existing plumbing

Tracer® Electronic Switching Flowmeter measures liquid flow rate and temperature while providing one programmable switching set point for high or low flow or temperature. 8 to 28VDC power source operates the flowmeter to provide continuous monitoring of the process. Sealed push-buttons configure the flowmeter and switching operations through user-friendly menus. BTU's per minute and incorporates FCI (Flow Characteristics Indicator) in support of Scientific Cooling℠ principles.

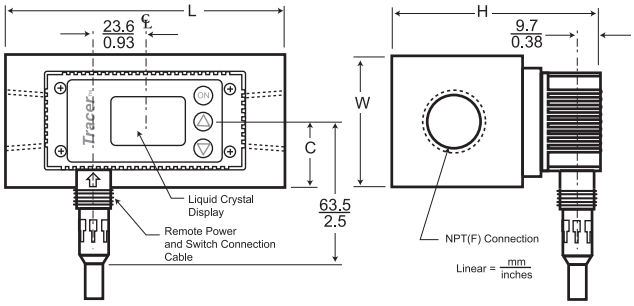
The Tracer Electronic Switching Flowmeter is designed to be permanently mounted to closely monitor water flow and temperature conditions. The SPDT switch in the Tracer flowmeter can be wired directly to an alarm circuit in a process controller or other peripheral equipment. The NPT(F) threaded openings provide versatile, leak-free connections to match existing plumbing without adapters.

Tracer Flowmeters are suitable for use in injection molding machine cooling water loops, lube oil systems, blending systems, filter condition indicators, and varied applications requiring flow measurement of clean, non-viscous, chemically-compatible process liquids.

Annual calibration is recommended for best results. 3⁄8″ unit not recommended for use with liquids containing metallic particles.

Specifications

Flow accuracy .....±5%*
Flow repeatability .....±3%*
Wetted Parts Body.....Clear-anodized aluminum or nickel-plated brass
Impeller.....nylon 6⁄12
Impeller Shaft .....18–8 stainless steel
Magnet.....neodymium
Power.....8 to 28VDC
Switching .....SPDT, 1A, 30VAC, 42VDC
Temperature Range.....32°F to 180°F (0°C to 82°C)
Accuracy.....±2% of display value
Repeatability.....±1% of display value
Environmental Pressure.....100 psi max.
*Accuracy and repeatability figures are based on the full scale of the range.



Part Number	Connection Size	Flow Range GPM	Flow Range LPM	Max Dimensions (mm/in) L	H	W	C
DDS3B	3⁄8″ NPT(F)	0.5–8	2–30	87⁄3.42	58⁄2.27	42⁄1.67	21⁄0.83
DDS6B	3⁄4″ NPT(F)	2–20	8–76	121⁄4.75	94⁄3.70	57⁄2.25	29⁄1.13
DDS8B	1″ NPT(F)	3–30	11–114	140⁄5.50	118⁄4.65	76⁄3.00	38⁄1.50
DDS12B	1–1⁄2″ NPT(F)	6.5–60	25–228				
DDS16B	2″ NPT(F)	10–110	38–418				

Features

- Compact, rugged design
- 210°F rating
- 100 PSI
- 20 GPM
- Aluminum body
- Polysulfone sight glass
- Can be mounted in any position
- Optional thermometer & pressure gauge

Materials & Options

Body	Anodized aluminum
Sight glass	Polysulfone
Gasket	Neoprene
Vane	Stainless steel
Spring	Stainless steel
Pin & screws	Stainless steel
Thermometer (opt.)	0° 250°F/–20° –120°C
Pressure gauge (opt.)	0 to 100 PSI

Flow

¾" NPT, 2 to 20 GPM
Part Number F6A20

1" NPT, 2 to 20 GPM
Part Number F8A20

Flow & Temp.

¾" NPT, 2 to 20 GPM
Part Number F6B20

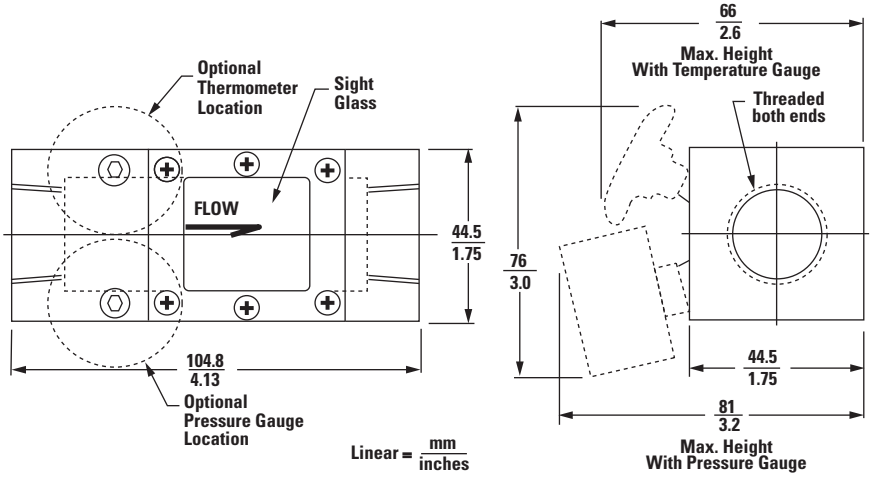
1" NPT, 2 to 20 GPM
Part Number F8B20

Flow, Temp. & Pressure

¾" NPT, 2 to 20 GPM
Part Number F6C20

1" NPT, 2 to 20 GPM
Part Number F8C20

E



Large Flowmeters

1" to 2" NPT

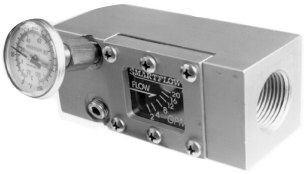
Features and materials same as above except that the capacity is up to 100 GPM and rated for 210°F

Flow indicating vane, visible through sight glass, provides continuous flow rate and positive visual verification of flow.

Flow

1" NPT, 2.5–40 GPM
Part Number F8A
1 1/4" NPT, 2.5–40 GPM
Part Number F10A
1 1/2" NPT, 2.5–40 GPM
Part Number F12A40
1 1/2" NPT, 10–100 GPM
Part Number F12A
2" NPT, 2.5–40 GPM
Part Number F16A40
2" NPT, 10–100 GPM
Part Number F16A

Flow & Temp.

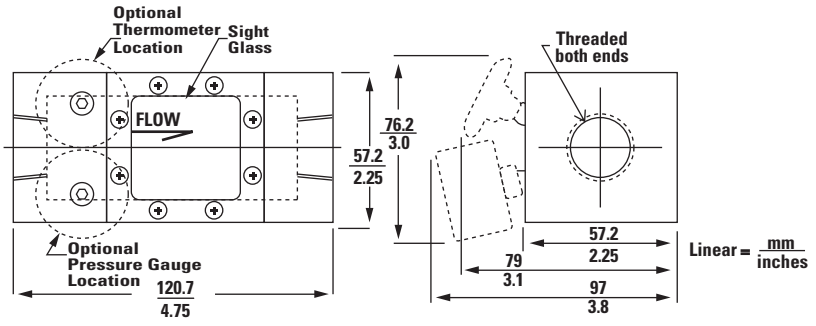


1" NPT, 2.5–40 GPM
Part Number F8B
1 1/4" NPT, 2.5–40 GPM
Part Number F10B
1 1/2" NPT, 2.5–40 GPM
Part Number F12B40
1 1/2" NPT, 10–100 GPM
Part Number F12B
2" NPT, 2.5–40 GPM
Part Number F16B40
2" NPT, 10–100 GPM
Part Number F16B

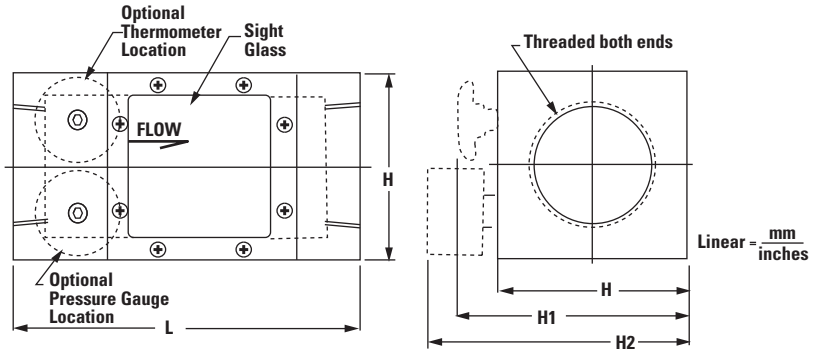
Flow, Temp. & Pressure

1" NPT, 2.5–40 GPM
Part Number F8C
1 1/4" NPT, 2.5–40 GPM
Part Number F10C
1 1/2" NPT, 2.5–40 GPM
Part Number F12C40
1 1/2" NPT, 10–100 GPM
Part Number F12C
2" NPT, 2.5–40 GPM
Part Number F16C40
2" NPT, 10–100 GPM
Part Number F16C

1" and 1–¼" Flowmeters 40 gpm



1–½ ", 2" Flowmeters 40, 100



LARGE FLOWMETERS

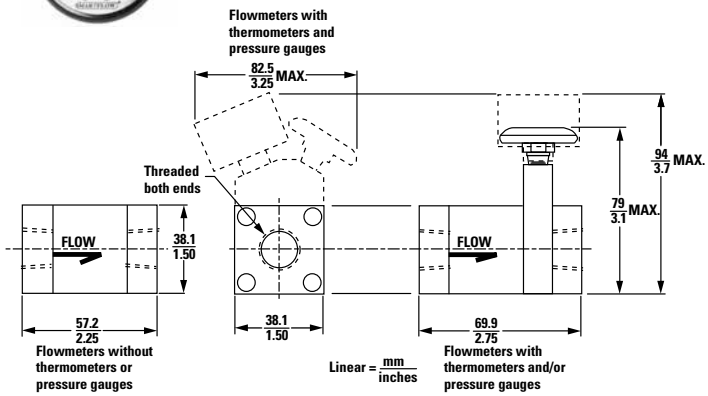
Dimension Chart	
Dim.	Body Size 1–½ or 2"
L	139.7/5.5
H	76.2/3.0
H_1	99/3.9
H_2	114/4.5

ICECUBE FLOWMETERS

Finally, a product that recognizes that leaks and broken tubes are common problems of other water regulators.
This Smartflow Flowmeter offers a practical and inexpensive solution to a far too common problem.

- Portable
- Compact
- Rugged
- 210°F rating
- 100 PSI
- 1 to 8 GPM – or .5 to 2.5 GPM
- 1/4", 3/8" or 1/2" brass quick connect couplings on quick-check models.
- Solid brass end caps
- High temperature polymer body
- Can be mounted in any position
- In-stock for same-day shipping
- Material:
  Endcaps..... Brass
  Body ..... Polysulfone
  Vane ..... Nylon
  Spring..... S/S
  O-Rings..... EDP
  Cap Screws ..... S/S

Flowmeter		Smartflow Flowmeter 1 – 8 GPM	Smartflow Flowmeter .5 – 2.5 GPM
		1/4" NPT ..... **F2A** 3/8" NPT ..... **F3A** 1/2" NPT ..... **F4A** 3/4" NPT **F6A**	1/4" NPT ..... **SF2A** 3/8" NPT ..... **SF3A** 1/2" NPT ..... **SF4A** 3/4" NPT **SF6A**
Flow & Temp. & Pressure		**Smartflow Flow, Temp. & Pressure 1 – 8 GPM** 1/4" NPT ..... **F2C** 3/8" NPT ..... **F3C** 1/2" NPT ..... **F4C** 3/4" NPT **F6C**	**Smartflow Flow, Temp. & Pressure .5 – 2.5 GPM** 1/4" NPT ..... **SF2C** 3/8" NPT ..... **SF3C** 1/2" NPT ..... **SF4C** 3/4" NPT **SF6C**
Flow & Temp.		**Flow & Temp. 1 – 8 GPM** 1/4" NPT ..... **F2B** 3/8" NPT ..... **F3B** 1/2" NPT ..... **F4B** 3/4" NPT **F6B**	**Flow & Temp. .5 – 2.5 GPM** 1/4" NPT ..... **SF2B** 3/8" NPT ..... **SF3B** 1/2" NPT ..... **SF4B** 3/4" NPT **SF6B**
Flow & Pressure		**Flow & Pressure 1 – 8 GPM** 1/4" NPT ..... **F2F** 3/8" NPT ..... **F3F** 1/2" NPT ..... **F4F** 3/4" NPT **F6F**	**Flow & Pressure .5 – 2.5 GPM** 1/4" NPT ..... **SF2F** 3/8" NPT ..... **SF3F** 1/2" NPT ..... **SF4F** 3/4" NPT **SF6F**



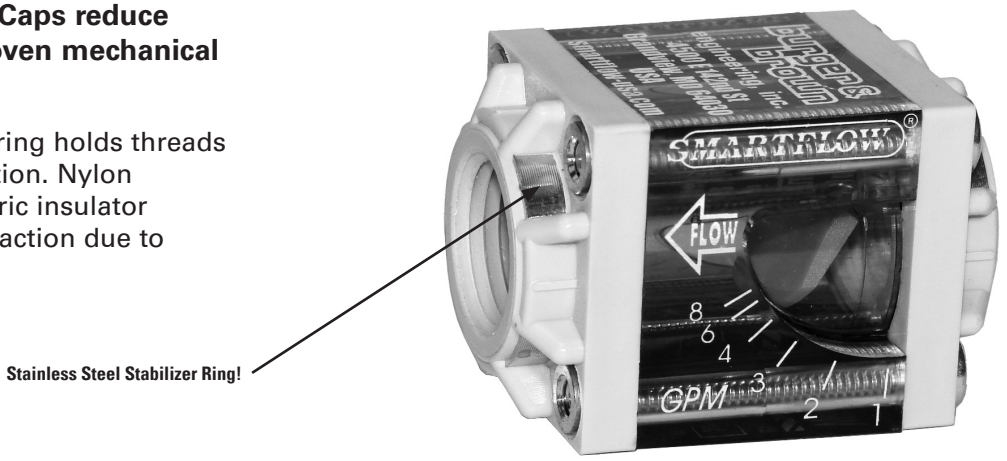
E

Ice Cube™ Flowmeters

With Nylon End Caps

Reinforced Nylon End Caps reduce weight and cost of proven mechanical flowmeter design.

Stainless steel stabilizer ring holds threads stable, preventing distortion. Nylon material provides dielectric insulator to help prevent galvanic action due to dissimilar metals.



General Description

Smartflow® Mechanical Flowmeters are durable, vane-operated devices that provide visual indication of flow rate in many different styles and sizes. Rugged wetted parts are compatible with many process liquids.

Optional temperature and pressure gauges add functionality and flexibility to Smartflow® Flowmeters. Brass quick-connect fittings are available to create an excellent, portable tool for determining flow and locating clogged lines.

Features and Benefits

- Compact size works well in restricted-space locations
- Rugged construction gives years of dependable service
- Variety of inlet sizes provides exactly the right connection
- 210°F (99°C) temperature rating allows installation into a wide range of applications
- Optional temperature and pressure gauges display pressure and temperature information in addition to flow in one unit
- Common flowmeter configurations stocked to provide same-day delivery in most cases
- No mounting restrictions ease installation in any position without extra brackets or hardware

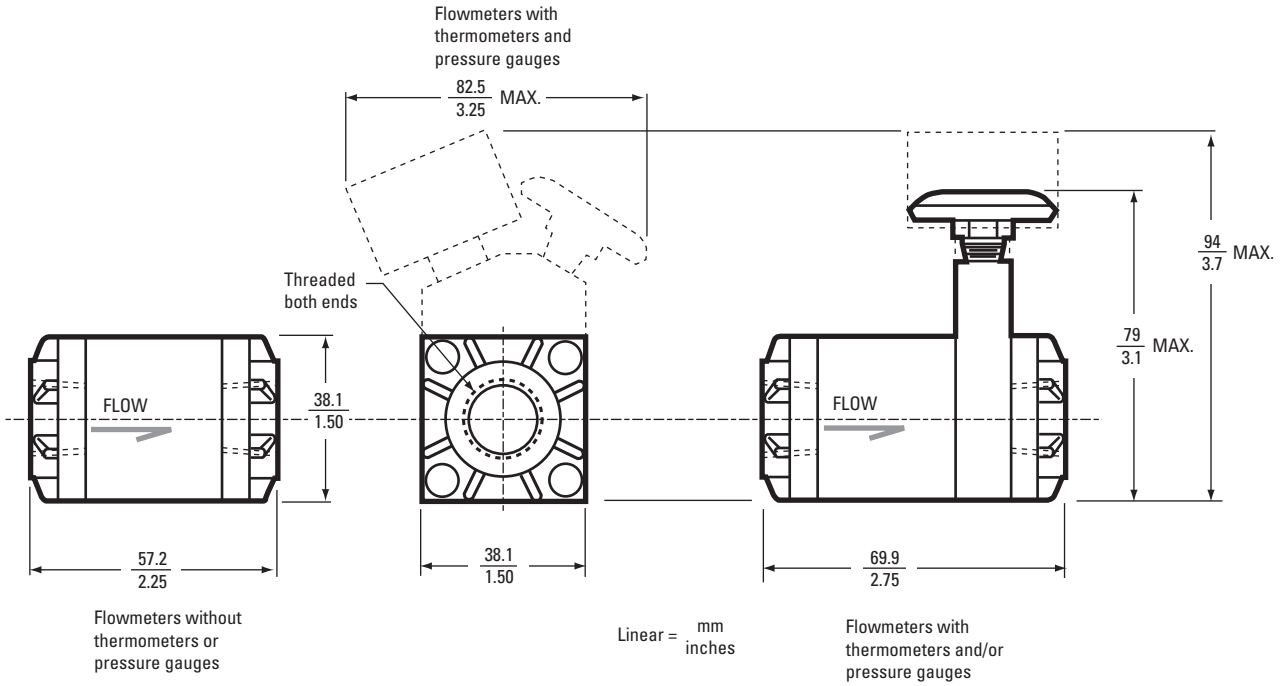
Wetted Parts and Materials

End Caps	Glass-filled nylon
Flow Body	Polysulfone
Vane	Glass-filled nylon
Spring	Stainless steel
O-Rings	EPDM
Cap Screws	Stainless steel
Optional Quick-Connect Fittings	Brass

Made in USA!

Specifications

Flow Accuracy	±10% full scale
Operating Temperature	210°F max. (99°C max.)
Operating Pressure	100 PSI max. (6.9 bar max.)
Dial Thermometer	0° to 250°F (–20° to 120°C) ±2% accuracy (full scale)
Pressure Gauge	0 to 100 psi (0 to 700 Kpa) ±3% accuracy (full scale)



ICECUBE FLOWMETERS/END CAPS

Part Number	Inlet Size	Accessories
FP2A80	¼" NPT Female	Flowmeter only
FP2B80		Flowmeter and thermometer
FP2C80		Flowmeter, thermometer and pressure gauge
FP2D80		Flowmeter, thermometer, pressure gauge and quick-change socket and plug
FP2E80		Flowmeter, thermometer and quick-change socket and plug
FP3A80	⅜" NPT Female	Flowmeter only
FP3B80		Flowmeter and thermometer
FP3C80		Flowmeter, thermometer and pressure gauge
FP3D80		Flowmeter, thermometer, pressure gauge and quick-change socket and plug
FP3E80		Flowmeter, thermometer and quick-change socket and plug
FP4A80	½" NPT Female	Flowmeter only
FP4B80		Flowmeter and thermometer
FP4C80		Flowmeter, thermometer and pressure gauge
FP4D80		Flowmeter, thermometer, pressure gauge and quick-change socket and plug
FP4E80		Flowmeter, thermometer and quick-change socket and plug

Precision Flow Regulator

Your Platform for Scientific Cooling℠

ΔELTA-Q
Precision Flow Regulator

General Description

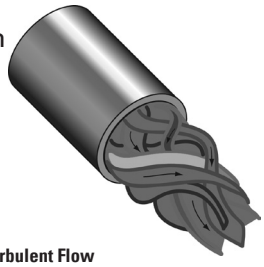
Delta-Q™ is a low-cost precision flow regulator module that can be used in conjunction with other SMARTFLOW components such as threaded end caps, IceCube™ flowmeters, temperature and pressure gauges, Dr. Eddy® Flowmeter/Turbulent Flow Indicator, Tracer® Electronic Flowmeters, and cooling water manifolds. The Delta-Q Regulator allows full adjustability of flow volume from unrestricted flow to complete shutoff using the manual flow control knob.

The modular design allows users to customize models meeting scientific cooling requirements for each application. The glass-filled nylon body is lightweight and durable. Internal stainless steel components are resistant to corrosion.

Features and Benefits

- **Economical solution for leak-free flow regulation of single or multiple circuits**
- **Compact size works well in restricted-space locations**
- **Rugged construction gives years of dependable service**
- **Variety of inlet sizes provides exactly the right connection**
- **Optional temperature and pressure gauges give instant access to pressure and temperature information in addition to flow in one unit**
- **No mounting restrictions ease installation in any position without extra brackets or hardware**
- **210°F (99°C) temperature rating allows installation into a wide range of applications**

Scientific Molding seeks to optimize molding efficiency by measuring and recording process parameters to the greatest extent possible, providing an effective means of easily repeating a successful molding setup, in any molding machine. Mold cooling, estimated to be about 80% of the molding cycle, is a key element.



Turbulent Flow

Scientific Cooling℠ is a training regimen developed for Smartflow® products. Scientific Cooling applies techniques from Scientific Molding: measure, record, adjust and repeat. The teaching of Scientific Cooling requires the right tools to control and quantify cooling parameters. Smartflow's (patent pending) Delta-Q™ flow regulator is the foundation of the modular system for Scientific Cooling because it controls and changes flow rate. Delta-Q is designed to mate with Icecube™, Dr. Eddy® or Tracer® flow meters to provide a range of options for Scientific Cooling measurement and adjustment.

Measurement options using Delta-Q as your platform for Scientific Cooling:

With an Icecube™ Flowmeter
Attach Delta-Q to a basic mechanical Icecube Flowmeter for economical flexibility of application.

The modular design allows the addition of individual measurement components: temperature gauge, pressure gauge, or liquid-filled pressure gauge. Quick disconnect fittings can also be added to create a portable troubleshooting tool to be kept in a toolbox or mold tryout station. In addition to the parameter measurements, Delta-Q allows technical molders to experiment with different flow rates while the meter is connected, making Scientific Cooling easier. See next page.

With a Dr. Eddy® Flowmeter/Turbulent Flow Indicator
Attach Delta-Q to a Dr. Eddy meter to detect turbulent flow using FCI (Flow Characteristic Indication) Technology. The presence of turbulent flow indicates that the most efficient cooling is present. The swirling and mixing of the water inside cooling passages creates the greatest heat transfer from the mold to the cooling medium. When attached to a Dr. Eddy, the Delta-Q becomes a valuable capacity conservation tool. Conserving cooling water at each cooling supply line preserves water capacity in other locations in the shop. Downstream presses can have greater cooling water volume available when upstream cooling line efficiency is maximized. See page 378.

With a Tracer® Electronic Flowmeter

Attach Delta-Q to a Tracer Electronic Flowmeter for greater accuracy and access to FCI Technology™. Tracer flowmeters have ±5% accuracy and optional NIST traceable calibration. Turbulent flow indication is standard on all Tracer Flowmeters.

A Switching Tracer flowmeter facilitates record-keeping when attached to a PLC or other data collection system. Record keeping is an important step in Scientific Cooling. A Switching Tracer attached to a Delta-Q is the ultimate tool for Scientific Cooling. See page 379.

On a Smartflow Manifold

Attach an array of Delta-Q modular flow regulators and meters to a Smartflow Manifold for economical fingertip control of an entire mold half without moving individual flowmeters from circuit to circuit. Smartflow manifolds save time in mold setups and help molders start making accurate parts quickly. See page 380.

Precision Flow Regulator

DELTA-Q™

Use when flow indication is not required.

Model Number

	F3	A	Q
Brass End Caps			Options
1/4″NPT(F)	F2	A	Regulator only
1/4″BSPP(F)	F2B	B	Thermometer
3/8″NPT(F)	F3	C	Thermometer and pressure gauge
3/8″BSPP(F)	F3B		
1/2″NPT(F)	F4	CL	Thermometer and liquid-filled pressure gauge
1/2″BSPP(F)	F4B		
		F	Pressure gauge
Nylon End Caps		FL	Liquid-filled pressure gauge
1/4″NPT(F)	FP2		
1/4″BSPP(F)	FP2B		
3/8″NPT(F)	FP3		
3/8″BSPP(F)	FP3B		
1/2″NPT(F)	FP4		
1/2″BSPP(F)	FP4B		

PRECISION FLOW REGULATOR

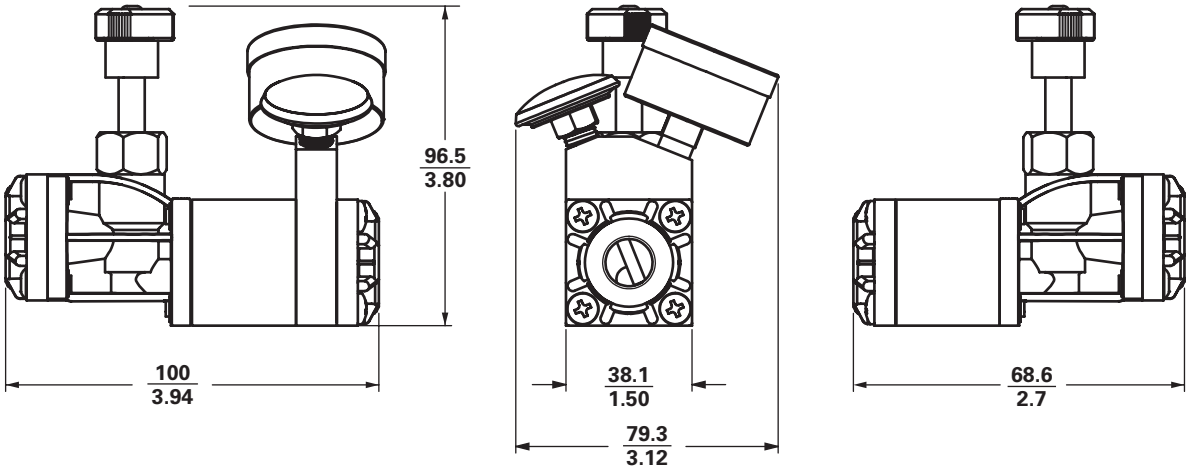
FP3-F-Q

Wetted Parts and Materials

End Caps ..... Brass or glass-filled nylon
Body ..... Glass-filled nylon
O-Rings ..... EPDM
Regulator Stem ..... Stainless steel
Cap Screws ..... Stainless steel
Optional Gauge Block ..... Brass
Optional Quick-Connect Fittings ..... Brass

Specifications

Operating Temperature ..... 210°F max. (99°C max.)
Operating Pressure ..... 100 PSI max. (6.9 bar max.)
Dial Thermometer ..... 0° to 250°F (–20° to 120°C)
..... ±2% accuracy (full scale)
Pressure Gauge ..... 0 to 100 PSI (0 to 700 KPA)
..... ±3% accuracy (full scale)



Precision Flow Regulator

With IceCube™ Flowmeter

Model Number

	F3	A	25	QR

Brass End Caps				Flow Direction
1/4″NPT(F)	F2			QR Return
1/4″BSPP(F)	F2B			(standard flow in)
3/8″NPT(F)	F3			QS Supply (flow out)
3/8″BSPP(F)	F3B			
1/2″NPT(F)	F4			Flow Rate (max.)
1/2″BSPP(F)	F4B		15	1.5 GPM
Nylon End Caps				(gallons per minute)
1/4″NPT(F)	FP2		25	2.5 GPM
1/4″BSPP(F)	FP2B		80	8.0 GPM
3/8″NPT(F)	FP3		100	10 LPM
3/8″BSPP(F)	FP3B			(liters per minute)
1/2″NPT(F)	FP4		200	20 LPM
1/2″BSPP(F)	FP4B		300	30 LPM

Options	
Flow body only	A
Thermometer	B
Thermometer & press. ga.	C
Thermometer and liquid-filled press. ga.	CL
Thermometer and quick-change socket and plug	E
Pressure gauge	F

DELTA-Q™

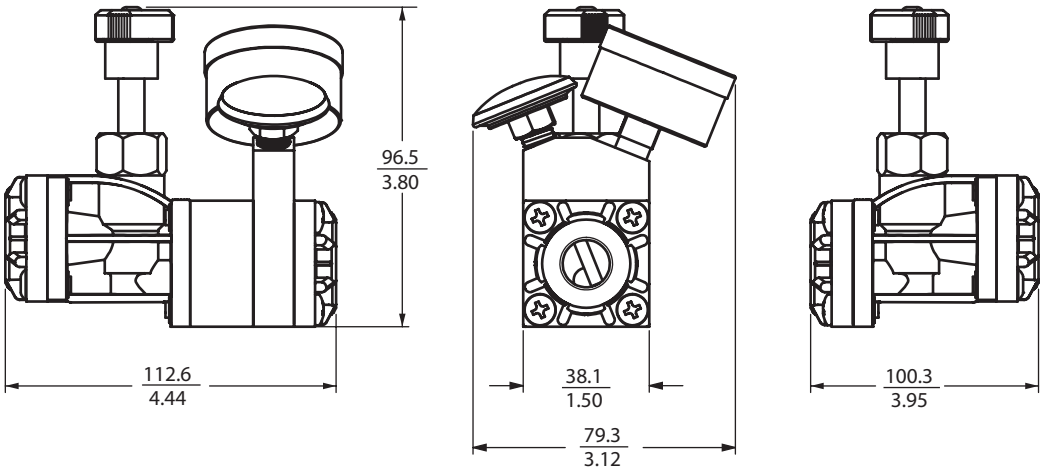
Use when flow indication is required.

Wetted Parts and Materials

End Caps..... Brass or glass-filled nylon
Flow Body ..... Polysulfone
Regulator Body ..... Glass-filled nylon
Vane ..... Glass-filled nylon
Spring ..... Stainless steel
O-Rings ..... EPDM
Cap Screws..... Stainless steel
Optional Gauge Block..... Brass
Optional Quick-Connect Fittings..... Brass

Specifications

Flow Accuracy....±10% full scale
Operating Temperature210°F max.
..... (99°C max.)
Operating Pressure100 psi max.
..... (6.9 bar max.)
Dial Thermometer.... 0° to 250°F
.....(–20° to 120°C)
..... ±2% accuracy (full scale)
Pressure Gauge.....0 to 100 PSI
.....(0 to 700 KPA)
..... ±3% accuracy (full scale)



Precision Flow Regulator

With Dr. Eddy™ Flowmeter

DELTA-Q™

Use when turbulent flow indication is required.

Model Number

	FC3	B	E	QR
Brass End Caps				
Inlet Size				
1/4″NPT(F)	FC2			QR
1/4″BSPP(F)	FC2B			
3/8″NPT(F)	FC3			
3/8″BSPP(F)	FC3B			QS
Nylon End Caps				
Inlet Size				
1/4″NPT(F)	FCP2			
1/4″BSPP(F)	FCP2B			
3/8″NPT(F)	FCP3			
3/8″BSPP(F)	FCP3B			
Accessories				
Thermometer (standard)		B		
Thermometer with quick-connect socket and plug		E		

Flow Direction
- QR Return (standard flow in)
- QS Supply (flow out)

Scale Units
- E English (temp in °F and flow in GPM)
- M Metric (temp in °C and flow in LPM)

PRECISION FLOW/DR. EDDY

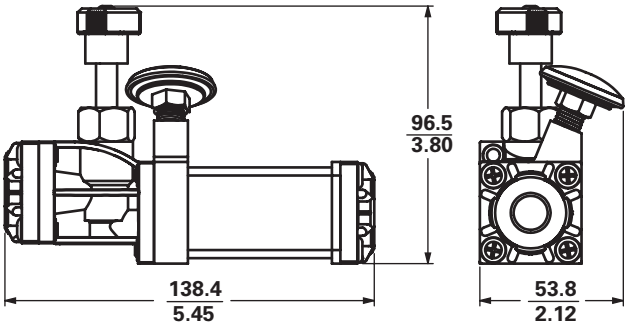
Wetted Parts and Materials

End Caps ..... Brass or glass-filled nylon
Regulator Body ..... Glass-filled nylon
Flow Body ..... Polysulfone
Indicator Ring ..... Silicone rubber
Piston ..... Acetal
Spring ..... Stainless steel
O-Rings ..... EPDM
Gauge Block ..... Brass
Optional Quick-Connect Fittings ..... Brass

Specifications

Accuracy ..... ±10% full scale
Operating Temperature ..... 210°F max. (99°C max.)
Operating Pressure ..... 100 PSI max. (6.9 bar max.)
Dial Thermometer ..... 0° to 250°F (–20° to 120°C)
..... ±2% accuracy (full scale)

10% Glycol Scales are available; contact DME Industrial Supplies for information.



Precision Flow Regulator

with 3/8" Tracer® Flowmeter

DELTA-Q™

Use when electronic flowmeters are required.

Model Number

	DD	3BB	Q	
Meter Style				Delta-Q
Digital display	DD			End Cap
Digital display	DDS			Material
plus switching			Q	Brass
			QP	Nylon
Thread Size				
⅜"NPT(F)		3B		
⅜"BSPP(F)		3BB		

Delta-Q Flow Regulator can be used with ⅜" Tracer electronic flowmeters.

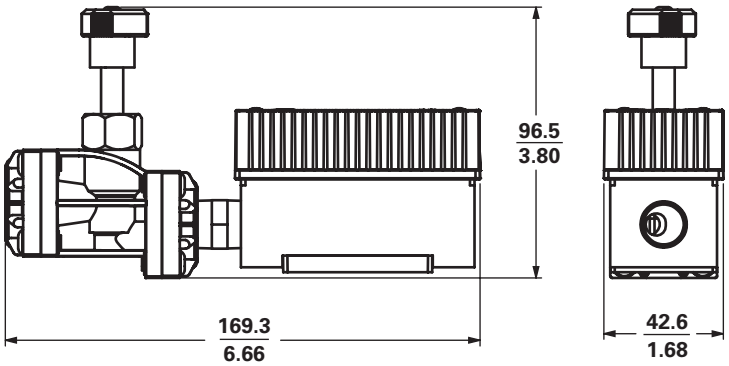
TRACER FLOWMETER

DD - 3.6V Battery-Powered

- Flow rate display
- Temperature display
- BTU's/Minute display
- Turbulent flow condition (with optional glycol % input)

DDS - 8-28VDC Powered

- Flow rate display
- Temperature display
- BTU's/minute display
- Turbulent flow condition (with optional glycol % input)
- Programmable switch for low and high flow, low and high temperature or turbulent flow condition
- Analog outputs: 0-5VDC or 0-10VDC for flow rate and temperature for connection to a data collection system



Wetted Parts and Materials

Body..... Nickel-plated brass
Impeller..... Nylon
Impeller Shaft..... Stainless steel
Magnet..... Neodymium
Back Cover.....Polysulfone
O-Ring..... EPDM
End Cap ..... Brass or glass-filled nylon

Specifications

Flow Accuracy..... ±5% of full scale
Flow Repeatability ..... ±3% of full scale
Temperature Accuracy ..... ±2% of display
Temperature Repeatability. ±1% of display
Operating Temperature .....180°F max. (82°C max.)
Operating Pressure..... 150 PSI max. (10.3 bar max.)

Power

DD - Model .....3.6VDC Battery (included)
DDS - Model..... 8 to 28VDC
Switching (DDS - Model only)..... SPDT, 1A 30VAC, 42VDC

E

Precision Flow Regulator

In Manifold Assemblies

DELTA-Q™

Use when an array of flow regulations is required.

Model Number

8SA - 16 - 3 - 2 - AQ B Y - 80

Base Manifold Supply size and material

¾"NPT AL	6SA
1"NPT AL	8SA
1–½"NPT AL	12SA
2"NPT AL	16SA
1"NPT 304SS	8SS
1–½"NPT 304SS	12SS
¾"BSPP AL	6BSA
1"BSPP AL	8BSA
1–½"BSPP AL	12BSA
2"BSPP AL	16BSA
1"BSPP 304SS	8BSS
1–½"BSPP 304SS	12BSS

AL= Aluminum
SS = Stainless steel

Number of Ports: 4 to 16

Port Sizes

¼"NPT(F)	2
¼"BSPP(F)	2B
⅜"NPT(F)	3
⅜"BSPP(F)	3B
½"NPT(F)	4
½"BSPP(F)	4B

Flow Regulator End Cap Material

B	Brass
N	Nylon

Temperature Gauge Option

AQ	without temp. gauge
TQ	with temp. gauge

Aluminum Manifold Color

Y	Red (flow direction in)
Z	Blue (flow direction out); does not apply to stainless steel manifolds

Flow Rates

15	0.2–1.5 GPM
25	0.5–2.5 GPM
80	1–8 GPM
100	2–10 LPM
200	3–20 LPM
300	4–30 LPM

CONTACT US

6SA432TQNY80

For paired installation, slide aluminum manifolds together using dovetail lock along the side of each manifold. Dovetail feature is not available on 2" aluminum or stainless steel manifolds. Contact DME for options not shown.

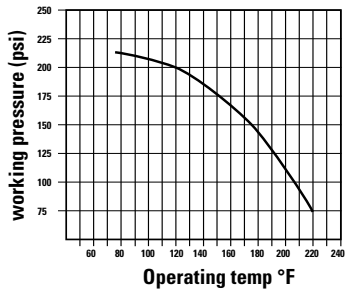
Contact DME Industrial Supplies for options not shown.

EZ-View

- Available with 1/2", 3/4" & 1" NPT threads
- Easy to install in any position
- No special piping or flow straighteners needed
- No electrical connections
- Direct reading indication

For Oil, Water & Other Fluids

- Accuracy within ±7% F.S.
- Relatively insensitive to shock and vibration
- Minimal pressure drop



Featuring unique variable-area metering design, with a spring-retained movable piston. The direct-reading EZ-View Flow Meter can be installed quickly, operating within ±7% accuracy. Operates in any position from vertical to horizontal, without costly flow straighteners or other special plumbing requirements. Standard cylindrical walled piston for maximum visibility with opaque liquids. Constructed of polysulfone and stainless steel for greater tolerance to pressure and temperature as well as chemical compatibility, this rugged flow meter is ideal for a wide range of liquid flow monitoring applications, including process control, water cooling systems, hydraulics and many more.

Specifications

- Material: Polysulfone or brass body and piston with stainless steel spring and stainless steel retaining rings
- Pressure Rating: 220 PSI max. - 3:1 safety factor
- Pressure Drop: Minimal
- Temperature Rating: See "temperature vs pressure" chart above
- Connections: Standard 1" NPT threaded port is recommended; swivel-type brass fittings, with Buna-N O-rings, are available with 1/2" NPT female and 3/4" NPT male threads; allow easy flow meter removal for routine maintenance.
- Standard scales: Calibrated in graduated GPM and LPM @ .876 specific gravity (oil) and @ 1.0 specific gravity (water) at 70°F.

E

EZ VIEW FLOWMETER

Media	Flow Range	Part Number 1*Male NPT Polysulfone	Part Number ¾" Male NPTF Brass	Part Number ½" Female NPTF Brass
Water	1.0 – 16 GPM	621–016	625–016	624–016
1.0 Sp. Gr.	3.0 – 18 GPM	621–018	625–018	–
Hex	–	1.125"	1.5"	1.5"
Length	–	5.3" (135 mm)	8.3" (211 mm)	7.8" (198 mm)
Weight	–	3 oz.	1 lb.	1 lb.

*Do not use pipe dope. Use PTFE tape only.

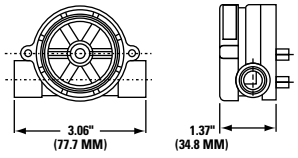
Flow Indicators

Visual Flow Indicators provide simple, effective confirmation of coolant flow in mold systems. Prevent dangerous and costly blocked pipe situations.

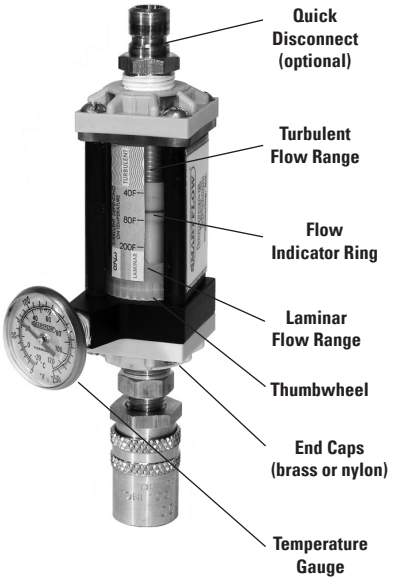
Visually bright orange spinning rotor
Operating temperature 212°F (100°C) max.
Pressure 100 PSI max.
1/4" or 1/2" ports
Includes low-flow adapter for measuring lower flow rates.

FLOW INDICATORS

Port Size NPT	Flow range (GPM) Standard	Flow range (GPM) Low Range	Part Number
¼"	0.5 to 5.0	0.1 to 1.0	**VF155420**
½"	4 to 20	1.5 to 12	**VF155480**



DR. EDDY FLOWMETER



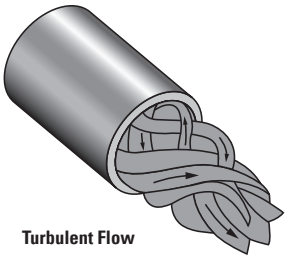
Dr. Eddy Diagnoses Flow Condition

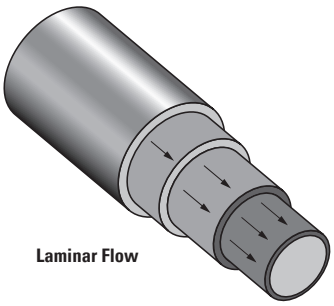
Using Fluid Characteristic Indication (FCI) technology, Dr. Eddy displays the condition of the water as it relates to flow efficiency: laminar flow, transitional flow or turbulent flow. Dr. Eddy has four scales built into the meter: three scales for FCI and one scale for flow rate. FCI Scales are selectable and correspond to cooling line inside diameter: ¼″, ⅜″, or ½″. Flow rate scale can be referenced quickly for additional functionality. The flow scale displays flow rate in gallons or liters per minute depending on the model. A dual scale temperature gauge is standard on all models for process comparison to the FCI Scales. Dr. Eddy applies the science of heat transfer, diagnosing the condition of cooling water lines at a glance. Cooling water capacity can be conserved plant-wide by using the minimum amount of flow that will produce turbulence on all presses. It may be possible to delay costly water system upgrades by maximizing the flow effectivity.

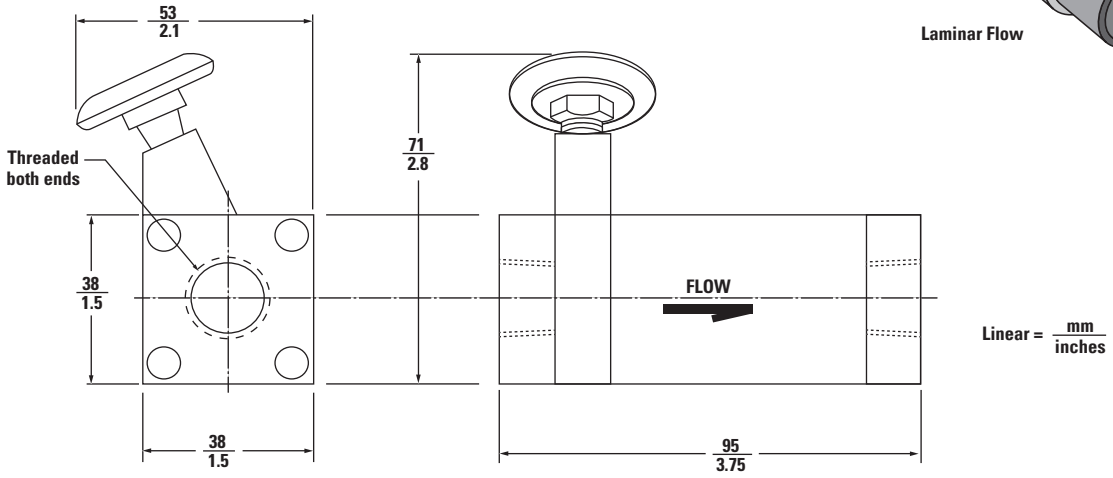
U.S. Patent No. 7,549,348

Turbulent Flow Basics

Turbulent water flow is much more efficient at removing heat in a cooling system than water flowing under laminar conditions. Once turbulent flow is achieved, increasing the flow rate does not significantly improve the cooling rate of the system. In molding applications, many mold operators try to maximize the flow of water through their cooling systems to ensure turbulent flow. Doing so increases energy costs for pumping more water than necessary through the system. This practice may also limit the amount of cooling water available for cooling additional molds on the same cooling system circuit. By ensuring turbulent flow using FCI Technology, less water can be used in the molding process, saving precious resources.


Turbulent Flow


Laminar Flow



NPT Thread

Type	Size (of inlet)	Material (of End Caps)	Scale Units	Quick Disconnects?	Part Number
FCI Flowmeter w/temp. and flow gauges	¼″	Nylon	English (°F)	–	FCP2BE
				Yes	FCP2EE
		Brass		–	FC2BE
				Yes	FC2EE
	⅜″	Nylon		–	FCP3BE
				Yes	FCP3EE
		Brass		–	FC3BE
				Yes	FC3EE
	¼″	Nylon	Metric (°C)	–	FCP2BM
				Yes	FCP2EM
		Brass		–	FC2BM
				Yes	FC2EM
	⅜″	Nylon		–	FCP3BM
				Yes	FCP3EM
		Brass		–	FC3BM
				Yes	FC3EM

BSP Thread

Type	Size (of inlet)	Material (of End Caps)	Scale Units	Quick Disconnects?	Part Number
FCI Flowmeter w/temp. and flow gauges	¼″	Nylon	English (°F)	–	FCP2BBE
		Brass		–	FC2BBE
	⅜″	Nylon		–	FCP3BBE
		Brass		–	FC3BBE
	¼″	Nylon	Metric (°C)	–	FCP2BBM
		Brass		–	FC2BBM
	⅜″	Nylon		–	FCP3BBM
		Brass		–	FC3BBM

E

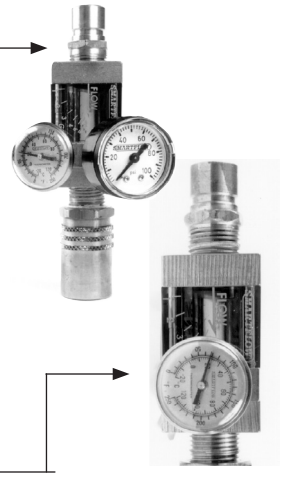
Flowmeters

Designed to diagnose and/or monitor water line conditions. Provides continuous readings of flow rate, temperature and pressure. Easy to install with quick-connect couplings, one socket and one plug. Choose from a variety of products that help you monitor and adjust your flow, temperature and pressure. End the guesswork, begin the smartwork!

FLOWMETERS

1 – 8 GPM	
¼″ NPT	F2E
⅜″ NPT	F3E
½″ NPT	F4E
.5 – 2.5 GPM	
¼″ NPT	SF2E
⅜″ NPT	SF3E
½″ NPT	SF4E

1 – 8 GPM	
¼″ NPT	F2D
⅜″ NPT	F3D
½″ NPT	F4D
.5 – 2.5 GPM	
¼″ NPT	SF2D
⅜″ NPT	SF3D
½″ NPT	SF4D

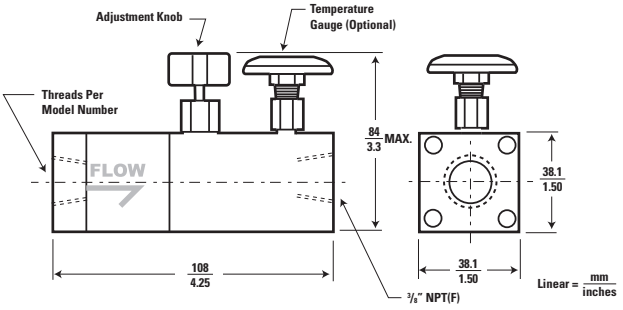


Quickly connect to check molds!

Flow Regulators

General Description

Smartflow® Flow Regulators provide a unique, leak-free, single-point manual flow control. This regulator incorporates the proven mechanical flowmeter and integral needle valve in a compact design. Very few moving parts improve reliability and leak-free operation. Used alone or in combination with a water manifold, the flow regulator allows manual control of individual cooling water lines. Brass valve, EPDM o-rings, and polysulfone viewing window are compatible with most process liquids. Optional temperature gauge may be added for additional process control information. Brass quick-connect fittings are available.



Features and Benefits

- Compact size works well in restricted-space locations
- Rugged construction gives years of dependable service
- 210°F (99°C) temperature rating allows installation into a wide range of applications
- Optional temperature gauge displays additional process information
- No mounting restrictions ease installation in any position without extra brackets or hardware

Wetted Parts and Materials

End Caps & Regulator Body.....Brass
Flow Body.....Polysulfone
Vane.....Glass-filled nylon
Spring.....Stainless steel
O-Rings.....EPDM
Cap Screws.....Stainless steel
Optional Quick-Connect Fittings.....Brass

Specifications

Flow Accuracy.....±10% full scale
Operating Temperature.....210°F max.(99°C max.)
Operating Pressure.....100 PSI max.(6.9 bar max.)
Dial Thermometer.....0° to 250°F(–20° to 120°C) ±2% accuracy (full scale)

FLOW REGULATORS

Part Number	Description
FR2B15	Flow Regulators –¼ NPT, 1.5 GPM, includes thermometer
FR3B15	Flow Regulators –⅜ NPT, 1.5 GPM, includes thermometer
FR4B15	Flow Regulators –½ NPT, 1.5 GPM, includes thermometer
FR2B25	Flow Regulators –¼ NPT, 2.5 GPM, includes thermometer
FR3B25	Flow Regulators –⅜ NPT, 2.5 GPM, includes thermometer
FR4B25	Flow Regulators –½ NPT, 2.5 GPM, includes thermometer
FR2B100	Flow Regulators –¼ NPT, 10 LPM, includes thermometer
FR3B100	Flow Regulators –⅜ NPT, 10 LPM, includes thermometer
FR4B100	Flow Regulators –½ NPT, 10 LPM, includes thermometer

Aluminum Water Manifolds

Cooling with ease, DME's one piece aluminum extrusion manifolds allow for outlet ports on 5 flats for maximum water distribution. Painted Blue or Red coloring makes for easy visual identification of in or out of the mold, pre-drilled mounting holes.

Features & Benefits:
Resistant to corrosion, 5 flats for out let ports allows for shorter OAL of the manifold, Combination Red/ Blue in one manifold.)

Specifications :
One Piece Extruded Aluminum
Max Temp up to180°C/356°F
Max Pressure 16Bar/230Psi
End Plugs Sold Separately

ALUMINUM WATER MANIFOLDS

Part Number	Description
BWMBS150	BRACKET FOR 2 BRASS MANIFOLDS WITH 8-16 PORTS
BWMBS70	BRACKET FOR 2 BRASS MANIFOLDS WITH 4 OR 6 PORTS
BWMCC16	ASSEMBLY CLAMP FOR 2 1" BRASS MANIFOLDS
BWMIP12	3/4" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP16	1" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP20	1 1/4" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP24	1 1/2" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP32	2" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP8	1/2" INLET PLUG FOR BRASS WATER MANIFOLD

Part Number	Description
ALM4ABC-N2N12-120B	12 PORT ALUM 3/4 INLET 1/8 OUT ABC BLUE 350F 230PSI MAX
ALM4ABC-N2N12-120R	12 PORT ALUM 3/4 INLET 1/8 OUT ABC RED 350F 230PSI MAX
ALM4ABC-N2N12-120RB	6-6 PORT ALUM 3/4 INLET 1/8OUT ABC DIVIDED 350F 230PSI MAX
ALM4ABC-N4N12-120B	12 PORT ALUM 3/4 INLET 1/4 OUT ABC BLUE 350F 230PSI MAX
ALM4ABC-N4N12-120R	12 PORT ALUM 3/4 INLET 1/4 OUT ABC RED 350F 230PSI MAX
ALM4ABC-N4N12-120RB	6-6 PORT ALUM 3/4 INLET 1/4OUT ABC DIVIDED 350F 230PSI MAX
ALM4ABC-N4N16-159B	12 PORT ALUM 1" INLET 1/4 OUT ABC BLUE 350F 230PSI MAX
ALM4ABC-N4N16-159R	12 PORT ALUM 1" INLET 1/4 OUT ABC RED 350F 230PSI MAX
ALM4ABC-N4N16-159RB	6-6 PORT 1" INLET 1/4 OUT ABC DIVIDED 350F 230PSI MAX
ALM4ABC-N6N16-159B	12 PORT ALUM 1" INLET 3/8 OUT ABC BLUE 350F 230PSI MAX
ALM4ABC-N6N16-159R	12 PORT ALUM 1" INLET 3/8 OUT ABC RED 350F 230PSI MAX
ALM4ABC-N6N16-159RB	6-6 PORT 1" INLET 3/8 OUT ABC DIVIDED 350F 230PSI MAX
ALM4ABC-N6N24-254RB	6-6 PORT 1 1/2 INLET 3/8 OUT ABC DIVIDED 350F 230PSI MAX
ALM4ABC-N8N24-254RB	6-6 PORT 1 1/2 INLET 1/2 OUT ABC DIVIDED 350F 230PSI MAX
ALM4BCD-N2N12-120B	12 PORT ALUM 3/4 INLET 1/8 OUT BCD BLUE 350F 230PSI MAX
ALM4BCD-N2N12-120R	12 PORT ALUM 3/4 INLET 1/8 OUT BCD RED 350F 230PSI MAX
ALM4BCD-N4N12-120B	12 PORT ALUM 3/4 INLET 1/4 OUT BCD BLUE 350F 230PSI MAX
ALM4BCD-N4N12-120R	12 PORT ALUM 3/4 INLET 1/4 OUT BCD RED 350F 230PSI MAX
ALM4BCD-N4N16-159B	12 PORT ALUM 1" INLET 1/4 OUT BCD BLUE 350F 230PSI MAX
ALM4BCD-N4N16-159R	12 PORT ALUM 1" INLET 1/4 OUT BCD RED 350F 230PSI MAX
ALM4BCD-N6N16-159B	12 PORT ALUM 1" INLET 3/8 OUT BCD BLUE 350F 230PSI MAX
ALM4BCD-N6N16-159R	12 PORT ALUM 1" INLET 3/8 OUT BCD RED 350F 230PSI MAX
ALM4BCD-N6N24-254B	12 PORT ALUM 1 1/2INLET 3/8OUT BCD BLUE 350F 230PSI MAX
ALM4BCD-N6N24-254R	12 PORT ALUM 1 1/2INLET 3/8OUT BCD RED 350F 230PSI MAX
ALM4BCD-N8N24-254B	12 PORT ALUM 1 1/2INLET 1/2OUT BCD BLUE 350F 230PSI MAX
ALM4BCD-N8N24-254R	12 PORT ALUM 1 1/2INLET 1/2OUT BCD RED 350F 230PSI MAX
ALM4BD-N2N12-120B	8 PORT ALUM 3/4 INLET 1/8 OUT BD BLUE 350F 230PSI MAX
ALM4BD-N2N12-120R	8 PORT ALUM 3/4 INLET 1/8 OUT BD RED 350F 230PSI MAX
ALM4BD-N2N12-120RB	4-4 PORT ALUM 3/4 INLET 1/8OUT BD DIVIDED 350F 230PSI MAX
ALM4BD-N4N12-120B	8 PORT ALUM 3/4 INLET 1/4 OUT BD BLUE 350F 230PSI MAX
ALM4BD-N4N12-120R	8 PORT ALUM 3/4 INLET 1/4 OUT BD RED 350F 230PSI MAX
ALM4BD-N4N12-120RB	4-4 PORT ALUM 3/4 INLET 1/4OUT BD DIVIDED 350F 230PSI MAX
ALM4BD-N4N16-159B	8 PORT ALUM 1" INLET 1/4 OUT BD BLUE 350F 230PSI MAX
ALM4BD-N4N16-159R	8 PORT ALUM 1" INLET 1/4 OUT BD RED 350F 230PSI MAX
ALM4BD-N4N16-159RB	4-4 PORT 1" INLET 1/4 OUT BD DIVIDED 350F 230PSI MAX
ALM4BD-N6N16-159B	8 PORT ALUM 1" INLET 3/8 OUT BD BLUE 350F 230PSI MAX
ALM4BD-N6N16-159R	8 PORT ALUM 1" INLET 3/8 OUT BD RED 350F 230PSI MAX
ALM4BD-N6N16-159RB	4-4 PORT 1" INLET 3/8 OUT BD DIVIDED 350F 230PSI MAX
ALM4BD-N6N24-254B	8 PORT ALUM 1 1/2 INLET 3/8OUT BD BLUE 350F 230PSI MAX
ALM4BD-N6N24-254R	8 PORT ALUM 1 1/2 INLET 3/8OUT BD RED 350F 230PSI MAX
ALM4BD-N6N24-254RB	4-4 PORT 1 1/2 INLET 3/8 OUT BD DIVIDED 350F 230PSI MAX
ALM4BD-N8N24-254B	8 PORT ALUM 1 1/2 INLET 1/2OUT BD BLUE 350F 230PSI MAX
ALM4BD-N8N24-254R	8 PORT ALUM 1 1/2 INLET 1/2OUT BD RED 350F 230PSI MAX
ALM4BD-N8N24-254RB	4-4 PORT 1 1/2 INLET 1/2 OUT BD DIVIDED 350F 230PSI MAX
ALM4C-N2N12-120B	4 PORT ALUM 3/4 INLET 1/8 OUT C BLUE 350F 230PSI MAX
ALM4C-N2N12-120R	4 PORT ALUM 3/4 INLET 1/8 OUT C RED 350F 230PSI MAX
ALM4C-N4N12-120B	4 PORT ALUM 3/4 INLET 1/4 OUT C BLUE 350F 230PSI MAX
ALM4C-N4N12-120R	4 PORT ALUM 3/4 INLET 1/4 OUT C RED 350F 230PSI MAX
ALM4C-N4N16-159B	4 PORT ALUM 1" INLET 1/4 OUT C BLUE 350F 230PSI MAX
ALM4C-N4N16-159R	4 PORT ALUM 1" INLET 1/4 OUT C RED 350F 230PSI MAX
ALM4C-N6N16-159B	4 PORT ALUM 1" INLET 3/8 OUT C BLUE 350F 230PSI MAX
ALM4C-N6N16-159R	4 PORT ALUM 1" INLET 3/8 OUT C RED 350F 230PSI MAX
ALM4C-N6N24-254B	4 PORT ALUM 1 1/2 INLET 3/8OUT C BLUE 350F 230PSI MAX

E

Aluminum Water Manifolds

Part Number	Description
ALM4C-N6N24-254R	4 PORT ALUM 1 1/2 INLET 3/8OUT C RED 350F 230PSI MAX
ALM4C-N8N24-254B	4 PORT ALUM 1 1/2 INLET 1/2OUT C BLUE 350F 230PSI MAX
ALM4C-N8N24-254R	4 PORT ALUM 1 1/2 INLET 1/2OUT C RED 350F 230PSI MAX
ALM6ABC-N2N12-171B	18 PORT ALUM 3/4 INLET 1/8 OUT ABC BLUE 350F 230PSI MAX
ALM6ABC-N2N12-171R	18 PORT ALUM 3/4 INLET 1/8 OUT ABC RED 350F 230PSI MAX
ALM6ABC-N2N12-171RB	9-9 PORT ALUM 3/4 INLET 1/8OUT ABC DIVIDED 350F 230PSI MAX
ALM6ABC-N4N12-171B	18 PORT ALUM 3/4 INLET 1/4 OUT ABC BLUE 350F 230PSI MAX
ALM6ABC-N4N12-171R	18 PORT ALUM 3/4 INLET 1/4 OUT ABC RED 350F 230PSI MAX
ALM6ABC-N4N12-171RB	9-9 PORT ALUM 3/4 INLET 1/4OUT ABC DIVIDED 350F 230PSI MAX
ALM6ABC-N4N16-222B	18 PORT ALUM 1" INLET 1/4 OUT ABC BLUE 350F 230PSI MAX
ALM6ABC-N4N16-222R	18 PORT ALUM 1" INLET 1/4 OUT ABC RED 350F 230PSI MAX
ALM6ABC-N4N16-222RB	9-9 PORT ALUM 1" INLET 1/4 OUT ABC DIVIDED 350F 230PSI MAX
ALM6ABC-N6N16-222B	18 PORT ALUM 1" INLET 3/8 OUT ABC BLUE 350F 230PSI MAX
ALM6ABC-N6N16-222R	18 PORT ALUM 1" INLET 3/8 OUT ABC RED 350F 230PSI MAX
ALM6ABC-N6N16-222RB	9-9 PORT ALUM 1" INLET 3/8 OUT ABC DIVIDED 350F 230PSI MAX
ALM6ABC-N6N24-355B	18 PORT ALUM 1 1/2INLET 3/8OUT ABC BLUE 350F 230PSI MAX
ALM6ABC-N6N24-355R	18 PORT ALUM 1 1/2INLET 3/8OUT ABC RED 350F 230PSI MAX
ALM6ABC-N6N24-355RB	9-9 PORT 1 1/2 INLET 3/8 OUT ABC DIVIDED 350F 230PSI MAX
ALM6ABC-N8N24-355B	18 PORT ALUM 1 1/2INLET 1/2OUT ABC BLUE 350F 230PSI MAX
ALM6ABC-N8N24-355R	18 PORT ALUM 1 1/2INLET 1/2OUT ABC RED 350F 230PSI MAX
ALM6ABC-N8N24-355RB	9-9 PORT 1 1/2 INLET 1/2 OUT ABC DIVIDED 350F 230PSI MAX
ALM6BCD-N2N12-171B	18 PORT ALUM 3/4 INLET 1/8 OUT BCD BLUE 350F 230PSI MAX
ALM6BCD-N2N12-171R	18 PORT ALUM 3/4 INLET 1/8 OUT BCD RED 350F 230PSI MAX
ALM6BCD-N4N12-171B	18 PORT ALUM 3/4 INLET 1/4 OUT BCD BLUE 350F 230PSI MAX
ALM6BCD-N4N12-171R	18 PORT ALUM 3/4 INLET 1/4 OUT BCD RED 350F 230PSI MAX
ALM6BCD-N4N16-222B	18 PORT ALUM 1" INLET 1/4 OUT BCD BLUE 350F 230PSI MAX
ALM6BCD-N4N16-222R	18 PORT ALUM 1" INLET 1/4 OUT BCD RED 350F 230PSI MAX
ALM6BCD-N6N16-222B	18 PORT ALUM 1" INLET 3/8 OUT BCD BLUE 350F 230PSI MAX
ALM6BCD-N6N16-222R	18 PORT ALUM 1" INLET 3/8 OUT BCD RED 350F 230PSI MAX
ALM6BCD-N6N24-355B	18 PORT ALUM 1 1/2INLET 3/8OUT BCD BLUE 350F 230PSI MAX
ALM6BCD-N6N24-355R	18 PORT ALUM 1 1/2INLET 3/8OUT BCD RED 350F 230PSI MAX
ALM6BCD-N8N24-355B	18 PORT ALUM 1 1/2INLET 1/2OUT BCD BLUE 350F 230PSI MAX
ALM6BCD-N8N24-355R	18 PORT ALUM 1 1/2INLET 1/2OUT BCD RED 350F 230PSI MAX
ALM6BD-N2N12-171B	12 PORT ALUM 3/4 INLET 1/8 OUT BD BLUE 350F 230PSI MAX
ALM6BD-N2N12-171R	12 PORT ALUM 3/4 INLET 1/8 OUT BD RED 350F 230PSI MAX
ALM6BD-N2N12-171RB	6-6 PORT ALUM 3/4 INLET 1/8OUT BD DIVIDED 350F 230PSI MAX
ALM6BD-N4N12-171B	12 PORT ALUM 3/4 INLET 1/4 OUT BD BLUE 350F 230PSI MAX
ALM6BD-N4N12-171R	12 PORT ALUM 3/4 INLET 1/4 OUT BD RED 350F 230PSI MAX
ALM6BD-N4N12-171RB	6-6 PORT ALUM 3/4 INLET 1/4OUT BD DIVIDED 350F 230PSI MAX
ALM6BD-N4N16-222B	12 PORT ALUM 1" INLET 1/4 OUT BD BLUE 350F 230PSI MAX
ALM6BD-N4N16-222R	12 PORT ALUM 1" INLET 1/4 OUT BD RED 350F 230PSI MAX
ALM6BD-N4N16-222RB	6-6 PORT ALUM 1" INLET 1/4 OUT BD DIVIDED 350F 230PSI MAX
ALM6BD-N6N16-222B	12 PORT ALUM 1" INLET 3/8 OUT BD BLUE 350F 230PSI MAX
ALM6BD-N6N16-222R	12 PORT ALUM 1" INLET 3/8 OUT BD RED 350F 230PSI MAX
ALM6BD-N6N16-222RB	6-6 PORT ALUM 1" INLET 3/8 OUT BD DIVIDED 350F 230PSI MAX
ALM6BD-N6N24-355B	12 PORT ALUM 1 1/2INLET 3/8OUT BD BLUE 350F 230PSI MAX
ALM6BD-N6N24-355R	12 PORT ALUM 1 1/2INLET 3/8OUT BD RED 350F 230PSI MAX
ALM6BD-N6N24-355RB	6-6 PORT 1 1/2 INLET 3/8 OUT BD DIVIDED 350F 230PSI MAX
ALM6BD-N8N24-355B	12 PORT ALUM 1 1/2INLET 1/2OUT BD BLUE 350F 230PSI MAX
ALM6BD-N8N24-355R	12 PORT ALUM 1 1/2INLET 1/2OUT BD RED 350F 230PSI MAX
ALM6BD-N8N24-355RB	6-6 PORT 1 1/2 INLET 1/2 OUT BD DIVIDED 350F 230PSI MAX

Part Number	Description
ALM6C-N2N12-171B	6 PORT ALUM 3/4 INLET 1/8 OUT C BLUE 350F 230PSI MAX
ALM6C-N2N12-171R	6 PORT ALUM 3/4 INLET 1/8 OUT C RED 350F 230PSI MAX
ALM6C-N4N12-171B	6 PORT ALUM 3/4 INLET 1/4 OUT C BLUE 350F 230PSI MAX
ALM6C-N4N12-171R	6 PORT ALUM 3/4 INLET 1/4 OUT C RED 350F 230PSI MAX
ALM6C-N4N16-222B	6 PORT ALUM 1" INLET 1/4 OUT C BLUE 350F 230PSI MAX
ALM6C-N4N16-222R	6 PORT ALUM 1" INLET 1/4 OUT C RED 350F 230PSI MAX
ALM6C-N6N16-222B	6 PORT ALUM 1" INLET 3/8 OUT C BLUE 350F 230PSI MAX
ALM6C-N6N16-222R	6 PORT ALUM 1" INLET 3/8 OUT CRED 350F 230PSI MAX
ALM6C-N6N24-355B	6 PORT ALUM 1 1/2 INLET 3/8OUT C BLUE 350F 230PSI MAX
ALM6C-N6N24-355R	6 PORT ALUM 1 1/2 INLET 3/8OUT C RED 350F 230PSI MAX
ALM6C-N8N24-355B	6 PORT ALUM 1 1/2 INLET 1/2OUT C BLUE 350F 230PSI MAX
ALM6C-N8N24-355R	6 PORT ALUM 1 1/2 INLET 1/2OUT C RED 350F 230PSI MAX
ALM8ABC-N2N12-222RB	12-12 PORT 3/4 INLET 1/8 OUT ABC DIVIDED 350F 230PSI MAX
ALM8ABC-N4N12-222RB	12-12 PORT 3/4 INLET 1/4 OUT ABC DIVIDED 350F 230PSI MAX
ALM8ABC-N4N16-286RB	12-12 PORT 1" INLET 1/4 OUT ABC DIVIDED 350F 230PSI MAX
ALM8ABC-N6N16-286RB	12-12 PORT 1" INLET 3/8 OUT ABC DIVIDED 350F 230PSI MAX
ALM8ABC-N6N24-457RB	12-12 PORT 1 1/2 INLET 3/8 OUT ABC DIVIDED 350F 230PSI MAX
ALM8ABC-N8N24-457RB	12-12 PORT 1 1/2 INLET 1/2 OUT ABC DIVIDED 350F 230PSI MAX
ALM8BD-N2N12-222B	16 PORT ALUM 3/4 INLET 1/8 OUT BD BLUE 350F 230PSI MAX
ALM8BD-N2N12-222R	16 PORT ALUM 3/4 INLET 1/8 OUT BD RED 350F 230PSI MAX
ALM8BD-N2N12-222RB	8-8 PORT ALUM 3/4 INLET 1/8OUT BD DIVIDED 350F 230PSI MAX
ALM8BD-N4N12-222B	16 PORT ALUM 3/4 INLET 1/4 OUT BD BLUE 350F 230PSI MAX
ALM8BD-N4N12-222R	16 PORT ALUM 3/4 INLET 1/4 OUT BD RED 350F 230PSI MAX
ALM8BD-N4N12-222RB	8-8 PORT ALUM 3/4 INLET 1/4OUT BD DIVIDED 350F 230PSI MAX
ALM8BD-N4N16-286B	16 PORT ALUM 1" INLET 1/4 OUT BD BLUE 350F 230PSI MAX
ALM8BD-N4N16-286R	16 PORT ALUM 1" INLET 1/4 OUT BD RED 350F 230PSI MAX
ALM8BD-N4N16-286RB	8-8 PORT ALUM 1" INLET 1/4 OUT BD DIVIDED 350F 230PSI MAX
ALM8BD-N6N16-286B	16 PORT ALUM 1" INLET 3/8 OUT BD BLUE 350F 230PSI MAX
ALM8BD-N6N16-286R	16 PORT ALUM 1" INLET 3/8 OUT BD RED 350F 230PSI MAX
ALM8BD-N6N16-286RB	8-8 PORT ALUM 1" INLET 3/8 OUT BD DIVIDED 350F 230PSI MAX
ALM8BD-N6N24-457B	16 PORT ALUM 1 1/2INLET 3/8OUT BD BLUE 350F 230PSI MAX
ALM8BD-N6N24-457R	16 PORT ALUM 1 1/2INLET 3/8OUT BD RED 350F 230PSI MAX
ALM8BD-N6N24-457RB	8-8 PORT 1 1/2 INLET 3/8 OUT BD DIVIDED 350F 230PSI MAX
ALM8BD-N8N24-457R	16 PORT ALUM 1 1/2INLET 1/2OUT BD RED 350F 230PSI MAX
ALM8BD-N8N24-457B	16 PORT ALUM 1 1/2INLET 1/2OUT BD BLUE 350F 230PSI MAX
ALM8BD-N8N24-457RB	8-8 PORT 1 1/2 INLET 1/2 OUT BD DIVIDED 350F 230PSI MAX
ALM8C-N2N12-222B	8 PORT ALUM 3/4 INLET 1/8 OUT C BLUE 350F 230PSI MAX
ALM8C-N2N12-222R	8 PORT ALUM 3/4 INLET 1/8 OUT C RED 350F 230PSI MAX
ALM8C-N4N12-222B	8 PORT ALUM 3/4 INLET 1/4 OUT C BLUE 350F 230PSI MAX
ALM8C-N4N12-222R	8 PORT ALUM 3/4 INLET 1/4 OUT C RED 350F 230PSI MAX
ALM8C-N4N16-286B	8 PORT ALUM 1" INLET 1/4 OUT C BLUE 350F 230PSI MAX
ALM8C-N4N16-286R	8 PORT ALUM 1" INLET 1/4 OUT C RED 350F 230PSI MAX
ALM8C-N6N16-286B	8 PORT ALUM 1" INLET 3/8 OUT C BLUE 350F 230PSI MAX
ALM8C-N6N16-286R	8 PORT ALUM 1" INLET 3/8 OUT C RED 350F 230PSI MAX
ALM8C-N6N24-457B	8 PORT ALUM 1 1/2 INLET 3/8OUT C BLUE 350F 230PSI MAX
ALM8C-N6N24-457R	8 PORT ALUM 1 1/2 INLET 3/8OUT C RED 350F 230PSI MAX
ALM8C-N8N24-457B	8 PORT ALUM 1 1/2 INLET 1/2OUT C BLUE 350F 230PSI MAX
ALM8C-N8N24-457R	8 PORT ALUM 1 1/2 INLET 1/2OUT C RED 350F 230PSI MAX

Part Number	Description
BWM10412B	BRASS 10 1/4 PORTS 3/4 INLET BLUE 350F 230PSI MAX
BWM10412R	BRASS 10 1/4 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM10612B	BRASS 10 3/8 PORTS 3/4 INLET BLUE 350F 230PSI MAX
BWM10612R	BRASS 10 3/8 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM10616B	BRASS 10 3/8 PORTS 1INCH INLET BLUE 350F 230PSI MAX
BWM10616R	BRASS 10 3/8 PORTS 1INCH INLET RED 350F 230PSI MAX
BWM10620B	BRASS 10 3/8 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM10620R	BRASS 10 3/8 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM10816B	BRASS 10 1/2 PORTS 1INCH INLET BLUE 350F 230PSI MAX
BWM10816R	BRASS 10 1/2 PORTS 1INCH INLET RED 350F 230PSI MAX
BWM10820B	BRASS 10 1/2 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM10820R	BRASS 10 1/2 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM12412B	BRASS 12 1/4 PORTS 3/4 INLET BLUE 350F 230PSI MAX
BWM12412R	BRASS 12 1/4 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM12612B	BRASS 12 3/8 PORTS 3/4 INLET BLUE 350F 230PSI MAX
BWM12612R	BRASS 12 3/8 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM12616B	BRASS 12 3/8 PORTS 1INCH INLET BLUE 350F 230PSI MAX
BWM12616R	BRASS 12 3/8 PORTS 1INCH INLET RED 350F 230PSI MAX
BWM12620B	BRASS 12 3/8 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM12620R	BRASS 12 3/8 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM12816B	BRASS 12 1/2 PORTS 1INCH INLET BLUE 350F 230PSI MAX
BWM12816R	BRASS 12 1/2 PORTS 1INCH INLET RED 350F 230PSI MAX
BWM12820B	BRASS 12 1/2 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM12820R	BRASS 12 1/2 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM16620B	BRASS 16 3/8 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM16620R	BRASS 16 3/8 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM16820B	BRASS 16 1/2 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM16820R	BRASS 16 1/2 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM4412B	BRASS 4 1/4 PORTS 3/4 INLET BLUE 350F 230PSI MAX
BWM4412R	BRASS 4 1/4 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM4612B	BRASS 4 3/8 PORTS 3/4 INLET BLUE 350F 230PSI MAX
BWM4612R	BRASS 4 3/8 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM4616B	BRASS 4 3/8 PORTS 1 INCH INLET BLUE 350F 230PSI MAX
BWM4616R	BRASS 4 3/8 PORTS 1 INCH INLET RED 350F 230PSI MAX
BWM4620B	BRASS 4 3/8 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM4620R	BRASS 4 3/8 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM4816B	BRASS 4 1/2 PORTS 1 INCH INLET BLUE 350F 230PSI MAX
BWM4816R	BRASS 4 1/2 PORTS 1 INCH INLET RED 350F 230PSI MAX
BWM4820B	BRASS 4 1/2 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM4820R	BRASS 4 1/2 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM6412B	BRASS 6 1/4 PORTS 3/4 INLET BLUE 350F 230PSI MAX
BWM6412R	BRASS 6 1/4 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM6612B	BRASS 6 3/8 PORTS 3/4 INLET BLUE 350F 230PSI MAX
BWM6612R	BRASS 6 3/8 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM6616B	BRASS 6 3/8 PORTS 1 INCH INLET BLUE 350F 230PSI MAX
BWM6616R	BRASS 6 3/8 PORTS 1 INCH INLET RED 350F 230PSI MAX
BWM6620B	BRASS 6 3/8 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM6620R	BRASS 6 3/8 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM6816B	BRASS 6 1/2 PORTS 1 INCH INLET BLUE 350F 230PSI MAX
BWM6816R	BRASS 6 1/2 PORTS 1 INCH INLET RED 350F 230PSI MAX
BWM6820B	BRASS 6 1/2 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM6820R	BRASS 6 1/2 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM8412B	BRASS 8 1/4 PORTS 3/4 INLET BLUE 350F 230PSI MAX

Brass is a great alternative to aluminum manifolds. Aluminum is known to erode when introduced to acidic water and harsh water. Brass manifolds are also unaffected by galvanic corrosion caused by aluminum manifolds combined with brass fittings. Overtime this erosion can lead to leaks of the threaded in/outlets.

Features & Benefits:
Resistant to corrosion, Painted color coded to quickly identify in and out of mold. Many options for inlet and outlet threads and number of ports to easily connect to your mold.

Specifications:
High Quality Brass Alloy
Max Temp up to180°C/356°F
Max Pressure 16Bar/230Psi
End Plugs Sold Separately

BRASS WATER MANIFOLDS

Part Number	Description
BWM8412R	BRASS 8 1/4 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM8612B	BRASS 8 3/8 PORTS 3/4 INLET BLUE 350F 230PSI MAX
BWM8612R	BRASS 8 3/8 PORTS 3/4 INLET RED 350F 230PSI MAX
BWM8616B	BRASS 8 3/8 PORTS 1 INCH INLET BLUE 350F 230PSI MAX
BWM8616R	BRASS 8 3/8 PORTS 1 INCH INLET RED 350F 230PSI MAX
BWM8620B	BRASS 8 3/8 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM8620R	BRASS 8 3/8 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWM8816B	BRASS 8 1/2 PORTS 1 INCH INLET BLUE 350F 230PSI MAX
BWM8816R	BRASS 8 1/2 PORTS 1 INCH INLET RED 350F 230PSI MAX
BWM8820B	BRASS 8 1/2 PORTS 1 1/4 INLET BLUE 350F 230PSI MAX
BWM8820R	BRASS 8 1/2 PORTS 1 1/4 INLET RED 350F 230PSI MAX
BWMBS150	BRACKET FOR 2 BRASS MANIFOLDS WITH 8-16 PORTS
BWMBS70	BRACKET FOR 2 BRASS MANIFOLDS WITH 4 OR 6 PORTS
BWMCC16	ASSEMBLY CLAMP FOR 2 1" BRASS MANIFOLDS
BWMIP12	3/4" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP16	1" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP20	1 1/4" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP24	1 1/2" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP32	2" INLET PLUG FOR BRASS WATER MANIFOLD
BWMIP8	1/2" INLET PLUG FOR BRASS WATER MANIFOLD

Aluminum Manifolds

INTERLOCKING ALUMINUM MANIFOLDS

Features & Benefits:

- One-piece aluminum extrusion
- Anodized red and blue for corrosion protection
- No welds
- No rust
- ¾, 1″ or 1½″ NPT supply
- ¼″, ⅜ or ½″ ports
- Brass end plug included
- Pre-drilled mounting holes and screws
- Interlocking units

Red & Blue

Made in the USA!

Part Number	No. Ports	NPT Port Size	Length	Inlet Between NPT	Ports
¾″ NPT Inlet/Outlet with ¼″ NPT Ports					
6SA4-2□	4	¼″	7.5″	¾″	1½″
6SA6-2□	6	¼″	10.5″	¾″	1½″
6SA8-2□	8	¼″	13.5″	¾″	1½″
***6SA10-2□**	10	¼″	16.5″	¾″	1½″
***6SA12-2□**	12	¼″	19.5″	¾″	1½″
***6SA16-2□**	16	¼″	25.5″	¾″	1½″
¾″ NPT Inlet/Outlet with ⅜″ NPT Ports					
6SA4-3□	4	⅜″	9″	¾″	2″
6SA6-3□	6	⅜″	13″	¾″	2″
6SA8-3□	8	⅜″	17″	¾″	2″
***6SA10-3□**	10	⅜″	21″	¾″	2″
***6SA12-3□**	12	⅜″	25″	¾″	2″
***6SA16-3□**	16	⅜″	33″	¾″	2″
1″ NPT Inlet/Outlet with ¼″ NPT Ports					
SA4-2□	4	¼″	7.5″	1″	1½″
SA6-2□	6	¼″	10.5″	1″	1½″
SA8-2□	8	¼″	13.5″	1″	1½″
SA10-2□	10	¼″	16.5″	1″	1½″
SA12-2□	12	¼″	19.5″	1″	1½″
SA16-2□	16	¼″	25.5″	1″	1½″
1″ NPT Inlet/Outlet with ⅜″ NPT Ports					
SA4-3□	4	⅜″	9″	1″	2″
SA6-3□	6	⅜″	13″	1″	2″
SA8-3□	8	⅜″	17″	1″	2″
SA10-3□	10	⅜″	21″	1″	2″
SA12-3□	12	⅜″	25″	1″	2″
SA16-3□	16	⅜″	33″	1″	2″
1–½″ NPT Inlet/Outlet with ½″ NPT Ports					
12SA4-4□	4	½″	10″	1–½″	2″
12SA6-4□	6	½″	14″	1–½″	2″
12SA8-4□	8	½″	18″	1–½″	2″
12SA10-4□	10	½″	22″	1–½″	2″
12SA12-4□	12	½″	26″	1–½″	2″
12SA16-4□	16	½″	34″	1–½″	2″

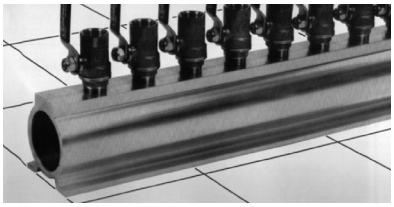
□Add "R" for red or "B" for blue.
*Indicates non-stock item.

Available Options:

- ½″ ball valves
- ½″ quick change plugs
- ½″ hose barbs
- Flowmeters
- Flow Regulators
- 1½″ or 2″ supply/hose barb fittings
- Custom modifications

2″ female NPT manifold allows tremendous flow. This large manifold supplies up to 16–½″ ports uniformly without restricting flow.

Specify Red or Blue by adding -R or -B to Part Number!

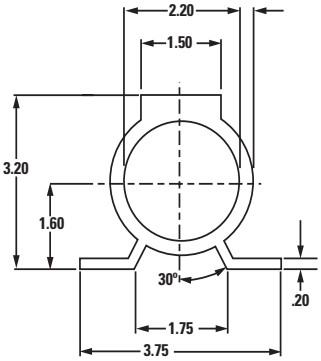


- One piece aluminum extrusion
- Anodized for corrosion protection
- No welds
- No rust
- 2″ NPT supply for maximum flow
- ½″ ports - up to 1″ available
- Brass end plug included
- Integral mounting flange
- With or without flow
- Money back guarantee

Available Options:

- ½″ ball valves
- ½″ quick change plugs
- ½″ hose barbs
- Flowmeters
- Flow Regulators
- Custom modifications

Made in the USA!



Dimensions in inches

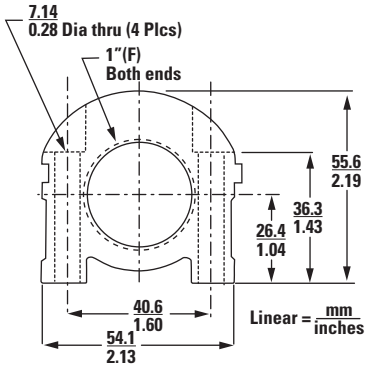
INTERLOCKING ALUMINUM MANIFOLDS

Part Number*	No. of Ports	2" Manifolds With ½" Ports Length
A4A	4	10″
A6A	6	14″
A8A	8	18″
A12A	12	26″
A16A	16	34″

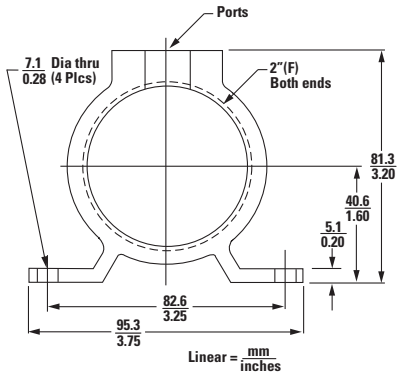
Manifolds include a brass end plug.
Add “R” for red or “B” for blue.

E

SMARTFLOW® Standard Aluminum Manifold Dimensions

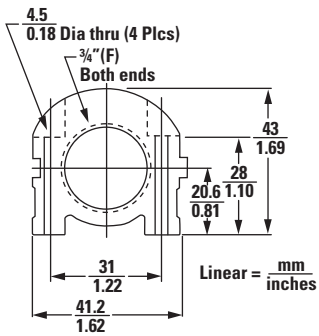


1″ Manifold

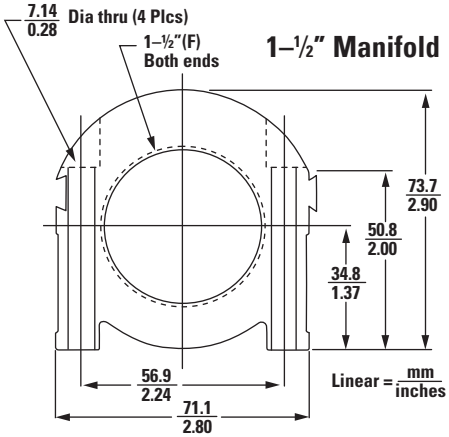


2" Manifold

Ports located on top surface only



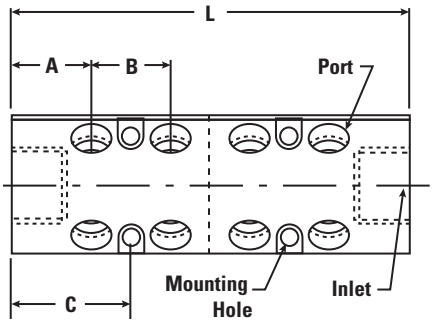
¾″ Manifold



1–½″ Manifold

SMARTFLOW®

DUOFLOW™ Aluminum Manifolds



See table below for dimensions.

SMARTFLOW-DUOFLOW ALUMINUM MANIFOLDS

General Description

SMARTFLOW® DUOFLOW™ Manifolds are robust extruded aluminum manifolds similar to the original Smartflow one-piece design. The manifolds are divided internally and anodized with one red end
and one blue end to denote supply and return on a single manifold.

The Duoflow design provides a shorter footprint specifically for mounting a manifold directly to an injection mold, or where space is limited. Port spacing is narrow for installation of hose barbs or quick disconnect fittings only. Ball valves are not recommended.

Tool change time is significantly decreased by mounting manifolds directly to molds in storage. Water hookup is simplified to "Supply" and "Return" lines versus individual water lines for every circuit.

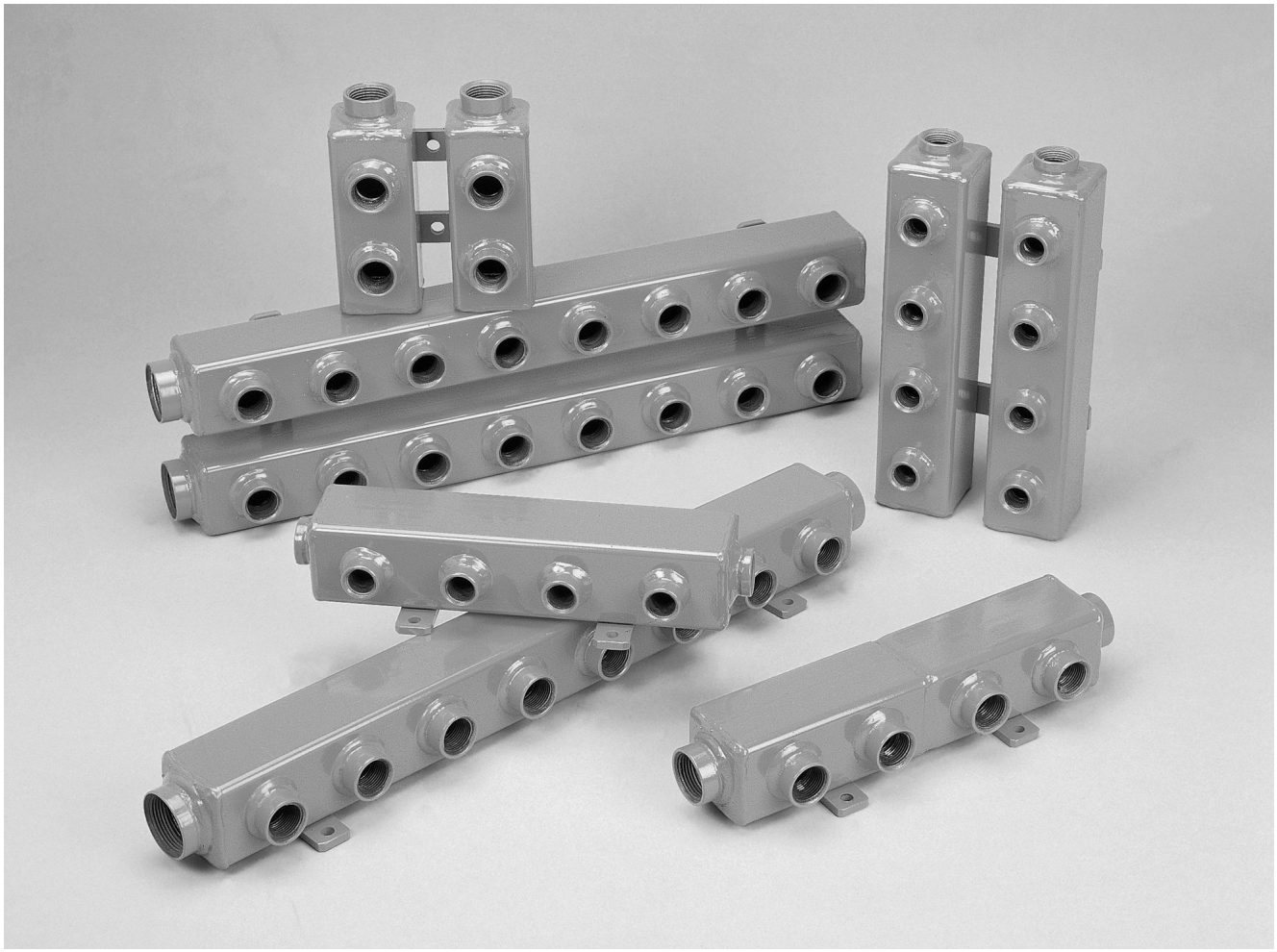
Features and Benefits

- Versatile mounting due to smaller size
- Mold-Mount to speed mold change times
- Economical, proven design for reliability

Specifications
Max. Pressure .....150 PSI (10 bar)
Max. Temperature ..... 210°F (99°C)
Material .....Aluminum
Divider Material ..... Stainless Steel w EPD

Custom manifolds are available on request!

Stocked Manifolds Model Number	Inlet Size	Port Size	Total Ports	Ports Per End	A	B	C	Overall Length L
6SDA8-2-13AYZ	¾"NPT	¼"NPT	8	4	1" 25.4mm	1" 25.4mm	1.5" 38mm	6.0"/152mm
6SDA12-2-13AYZ			12	6				8.0"/203mm
6SDA16-2-13AYZ			16	8				10.0"/254mm
8SDA8-3-13AYZ	1"NPT	⅜"NPT	8	4	1.25" 32mm	1.25" 32mm	1.88" 47.6mm	7.25"/184mm
8SDA12-3-13AYZ			12	6				9.75"/248mm
8SDA16-3-13AYZ			16	8				12.25"/311mm
12SDA8-4-13AYZ	1-½"NPT	½"NPT	8	4	1.75" 44.5mm	1.5" 38mm	2.5" 63.5mm	9.0"/229mm
12SDA12-4-13AYZ			12	6				12.0"/305mm
12SDA16-4-13AYZ			16	8				15.0"/381mm



Painted Steel Manifolds

Painted steel water manifolds help increase cycles through more efficient water distribution. They help tidy your hoses while reducing the number of hoses to mold. Mount the manifolds close to your mold for maximum flow volumes. Platen-mounted manifolds reduce hose lengths (if you plan to keep platen-mounted manifolds in storage with your mold, we recommend that you select our anodized aluminum or stainless steel manifolds.

Manufactured from heavy gauge mild steel with threaded couplings welded in place. Pre-drilled mounting brackets for easy mounting to your mold platens or temperature controller are included.

Stainless Steel Manifolds

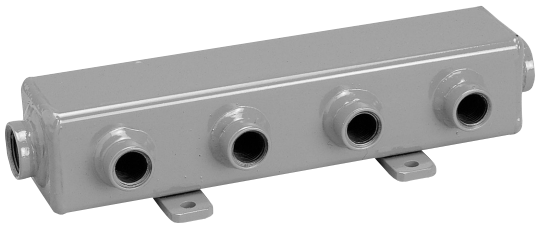
All the benefits of our painted steel manifolds – better water distribution for increased cycles, reduced number of hoses, tidier hose arrangements – and a big plus: NO RUST OR CORROSION. If your plant has poor water quality, the extra investment in stainless steel pays off fast in lower maintenance and maximum flow volumes at all times. With platen-mounted manifolds, you can put them into storage with no concern about rust.

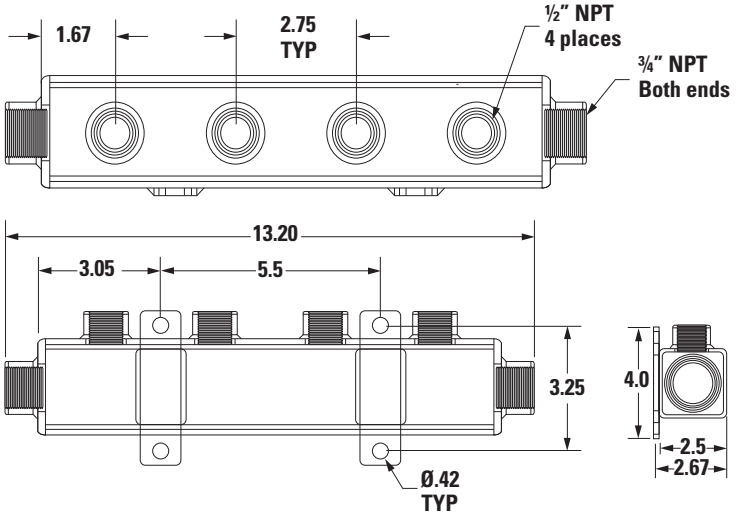
Steel Manifolds

Painted and Stainless-SINGLE

Features

- Painted manifolds are manufactured from heavy-gauge mild steel
- Threaded couplings are welded in place
- Pre-drilled mounting brackets for easy mounting
- Pressure rated to 120 PSI
- Temperature rated to 3000 F

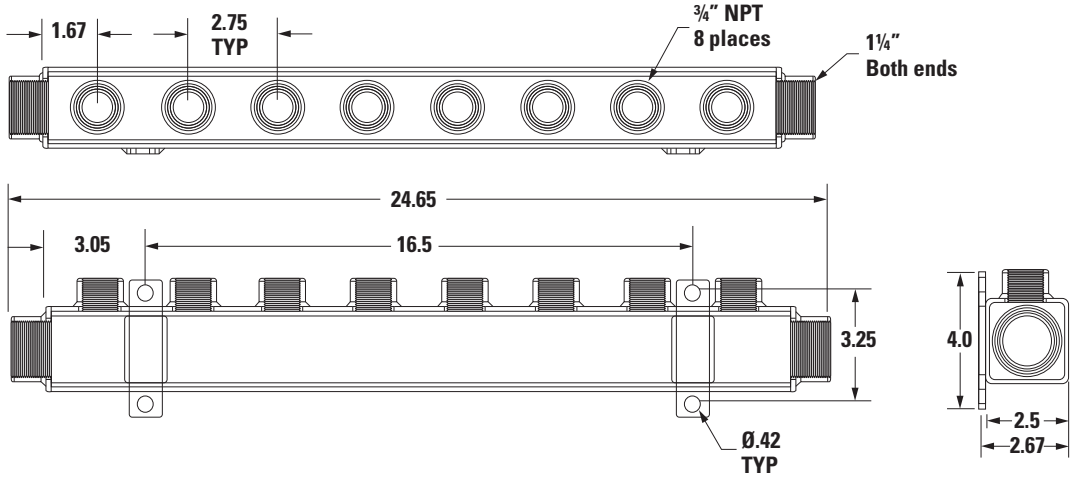




Steel Type	Inlets NPT	Inlets Qty.	Outlets NPT	Outlets Qty.	Dimensions L	Dimensions W	Dimensions H	Part Number
Painted	¾"	2	½"	4	12¾"	2½"	2½"	**CWM4**
Stainless	¾"	2	½"	4	12¾"	2½"	2½"	**CWM4CR**

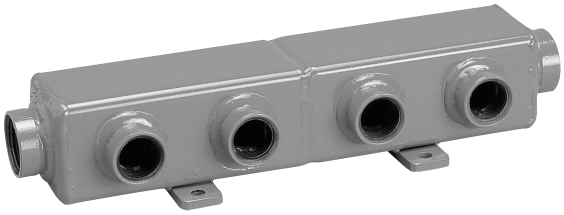
PAINTED & STAINLESS STEEL MANIFOLDS

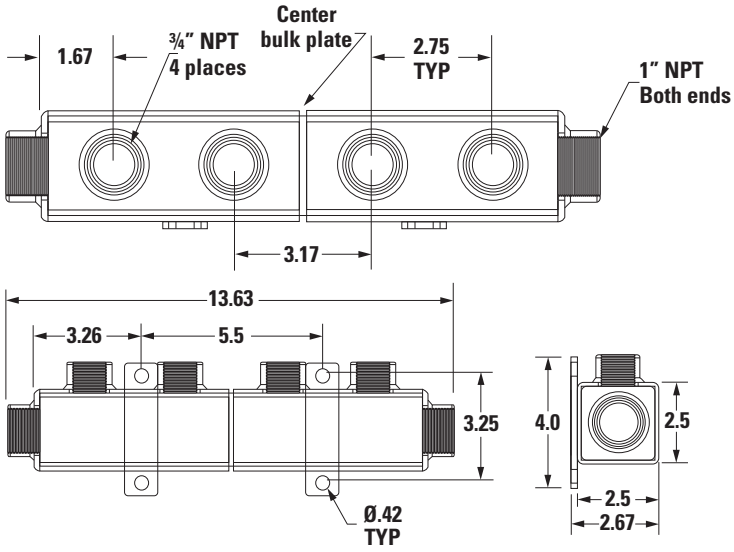
Steel Type	Inlets NPT	Inlets Qty.	Outlets NPT	Outlets Qty.	Dimensions L	Dimensions W	Dimensions H	Part Number
Painted	1¼"	2	¾"	8	24¼"	2½"	2½"	**CWM8A**
Stainless	1¼"	2	¾"	8	24¼"	2½"	2½"	**CWM8ACR**



Features

- Painted manifolds are manufactured from heavy-gauge mild steel
- Threaded couplings are welded in place
- Pre-drilled mounting brackets for easy mounting
- Pressure rated to 120 PSI
- Temperature rated to 3000 F

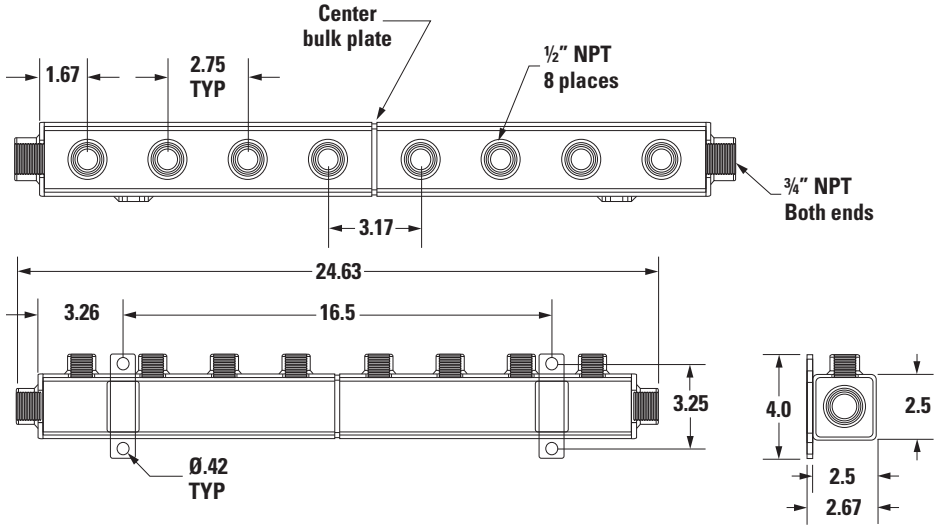




Steel Type	Inlets NPT	Inlets Qty.	Outlets NPT	Outlets Qty.	Dimensions L	Dimensions W	Dimensions H	Part Number
Painted	1″	2	¾″	4	13½″	2½″	2½″	**CWML22**
Stainless	1″	2	¾″	4	13½″	2½″	2½″	**CWML22CR**

PAINTED & STAINLESS STEEL MANIFOLDS

Steel Type	Inlets NPT	Inlets Qty.	Outlets NPT	Outlets Qty.	Dimensions L	Dimensions W	Dimensions H	Part Number
Painted	¾″	2	½″	8	24″	2½″	2½″	**CWM44**
Stainless	¾″	2	½″	8	24″	2½″	2½″	**CWM44CR**

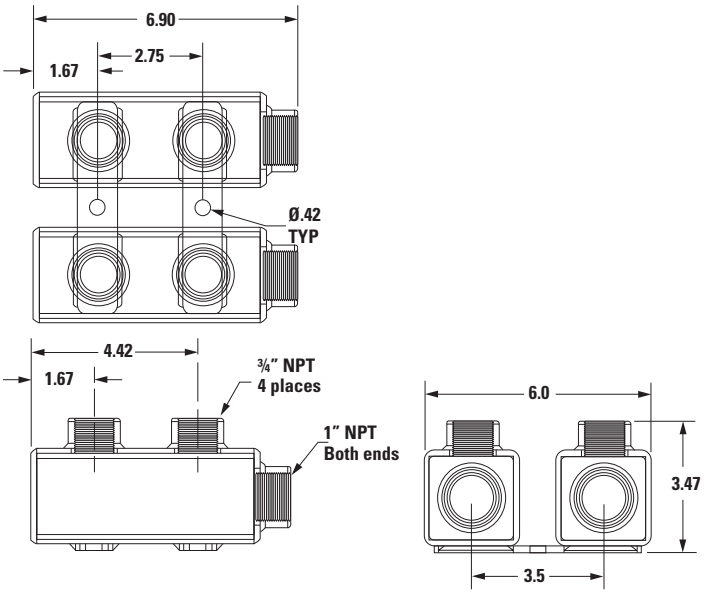


Steel Manifolds

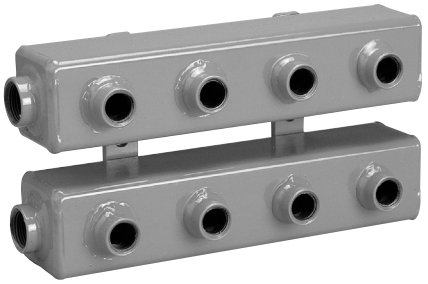
Painted and Stainless-STACKED

Features

- Painted manifolds are manufactured from heavy-gauge mild steel
- Threaded couplings are welded in place
- Pre-drilled mounting brackets for easy mounting
- Pressure rated to 120 PSI
- Temperature rated to 3000 F

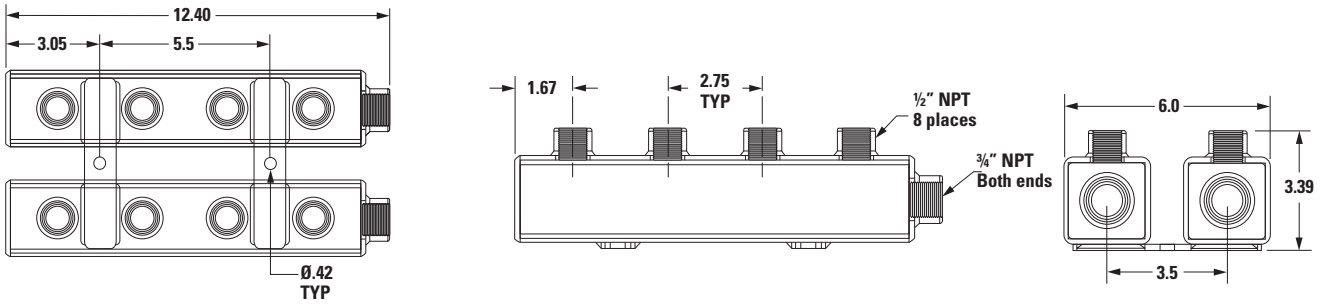


Steel Type	Inlets NPT	Inlets Qty.	Outlets NPT	Outlets Qty.	Dimensions L	Dimensions W	Dimensions H	Part Number
Painted	1″	2	¾″	4	7″	6″	2½″	**CWML2S2**
Stainless	1″	2	¾″	4	7″	6″	2½″	**CWML2S2CR**

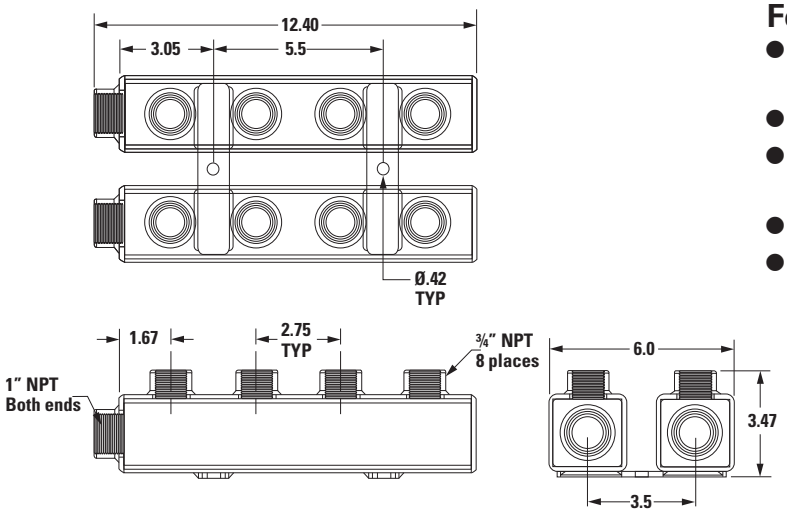


PAINTED & STAINLESS STEEL MANIFOLDS

Steel Type	Inlets NPT	Inlets Qty.	Outlets NPT	Outlets Qty.	Dimensions L	Dimensions W	Dimensions H	Part Number
Painted	¾″	2	½″	8	12¼″	6″	2½″	**CWM4S4**
Stainless	¾″	2	½″	8	12¼″	6″	2½″	**CWM4S4CR**



Painted and Stainless-STACKED



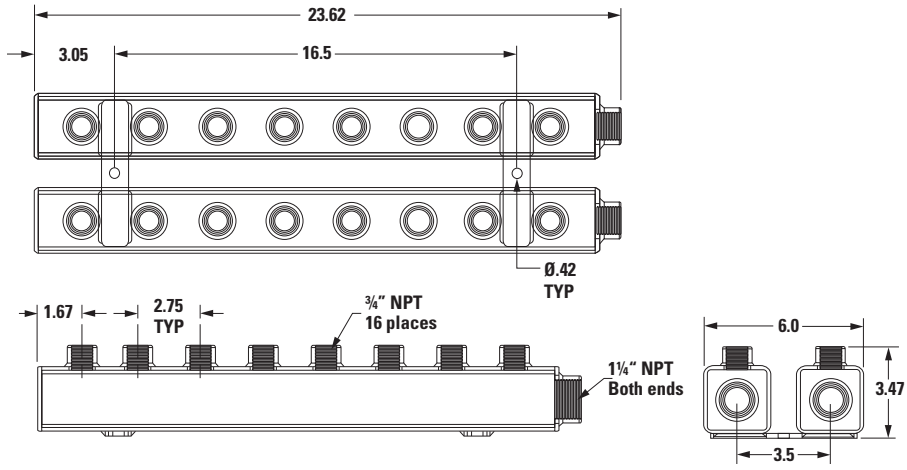
Features

- Painted manifolds are manufactured from heavy-gauge mild steel
- Threaded couplings are welded in place
- Pre-drilled mounting brackets for easy mounting
- Pressure rated to 120 PSI
- Temperature rated to 300°F

Steel Type	Inlets NPT	Inlets Qty.	Outlets NPT	Outlets Qty.	Dimensions L	Dimensions W	Dimensions H	Part Number
Painted	1″	2	¾″	8	12½″	6″	2½″	**CWML4S4**
Stainless	1″	2	¾″	8	12½″	6″	2½″	**CWML4S4CR**

PAINTED & STAINLESS STEEL MANIFOLDS

Steel Type	Inlets NPT	Inlets Qty.	Outlets NPT	Outlets Qty.	Dimensions L	Dimensions W	Dimensions H	Part Number
Painted	1¼″	2	¾″	16	23½″	6″	2½″	**CWM8S8A**
Stainless	1¼″	2	¾″	16	23½″	6″	2½″	**CWM8S8ACR**



Bronze Valved Manifolds

Repair Kit

Repair Kit
Includes ball, handle, nut, packing nut, stem, packing gland, thrust washer, 2 ball seats and adaptor.
Part Number B6000Z76

BRONZE VALVED MANIFOLD REPAIR KIT

PTFE Thread Sealing Tape

PTFE Tape Thread Sealants

- Permanent non-flammable seal
- Remains plastic permanently
- Operation temps –450˚F to +500˚F
- For water connections, hydraulics, air, gas, & petroleum
- The finest quality tape available
- NEVER use thinner, cheaper substitutes

Part Number	Length	Thickness	Width
TT100	260″(21.6′)	0.0035	½″
TT200	520″(43.3′)	0.0035	½″
TT300	520″(43.3′)	0.0035	¾″

PTFE THREAD SEALING TAPE

Thread Sealant

- Resists corrosion, leakage and loosening from vibration and moisture
- Anaerobic sealant chemically cures in the absence of air
- Use from –65˚F To +350˚F
- Allows final adjustments up to 24 hours after application
- Use for hydraulics, pneumatics, process piping or steam
- Locks and seals threaded fittings
- Easy disassembly without damage to threads
- Won't shrink away from fitting

Part Number	Container Size
49485	6 ml Tube
49486	50 ml Tube
49495	16 Oz Brush-Top

THREAD SEALANT

E

RTV Silicone

RTV Silicone Adhesive Sealant

- Bonds most plastics many assembly uses
- Cures at room temperature to a tough, flexible rubber
- Resists shrinkage
- Perfect for caulking, sealing, waterproofing & bonding
- Bonds & seals terminals, connectors, mounting fixtures, mechanical gaskets, glass, metal, masonry, plastic, tile, rubber, wood & fabric
- Very attractive prices!

Operational Temp.(RTV Silicone): –60°F to +450°F Max Temp.(Silicone Gasket Makers): 650°F

Part Number	Container Size**	Color
49204	3 Oz Tube	Clear
49294	11 Oz Cartridge	Clear*
Silicone Gasket Makers		
49202	3 Oz Tube	Red
49292	11 Oz Cartridge	Red

*Available in Marine Grade & Mildew Resistant ** Available in Larger Sizes!

RTV SILICONE

T-Handle Ball Valves

- ¼ turn on/off
- Fits close for tight installations
- Bottom loaded stem, blowout proof design
- Large port design/rated to 400 PSI W.O.G.
- PTFE stem packing & seats, viton seals
- Excellent flow compared to other valves in this class
- Forged brass body, chrome-plated ball

ISO 9002
Registered Manufacturer

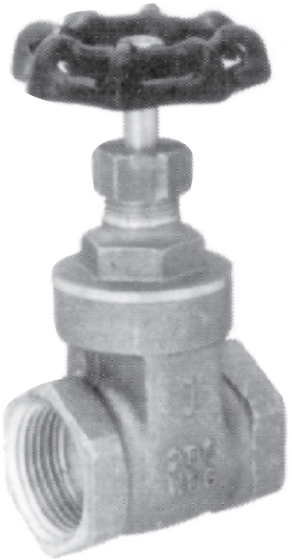
T-HANDLE BALL VALVE

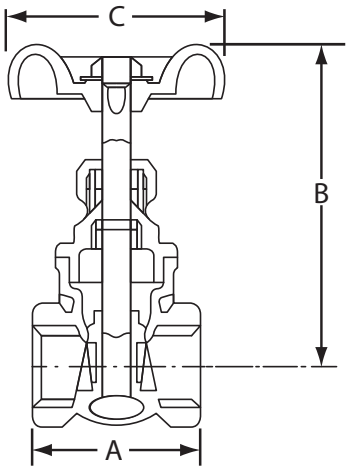
Part Number	NPT Thread
BBV2MFT	⅛″
BBV4MFT	¼″
BBV6MFT	⅜″
BBV8MFT	½″

T-Handle is 1⅝″ wide for ⅛″ & ¼″; 2½″ for ⅜″ & ½″.

Brass Gate Valves

- Heavy-duty die cast brass
- Screwed bonnet, non-rising stem, solid wedge disc and integral seats
- Recommended for non-stem use
- Asbestos-free graphite packing
- Pressure rating: 200 W.O.G. non-shock
- Very economical





CONTACT US

Part Number	Valve Size	A	B	C
BGV8	½″	1.54	2.72	2.13
BGV12	¾″	1.73	2.92	2.13
BGV16	1″	1.85	3.31	2.13
BGV20	1¼″	2.09	3.86	2.40
BGV24	1½″	2.25	4.57	2.96
BGV32	2″	2.4	4.93	2.96
	Available to 4″			

Forged Brass Ball Valves

Female x Female

- Extra heavy-duty bottom-loaded stem with a PTFE thrust washer and Viton O-ring
- PTFE seats, thrust washer and stem packing
- Self-cleaning, chromium-plated brass ball for maximum durability

Pressure Rating
400 W.O.G. NON-SHOCK 125 W.S.P.

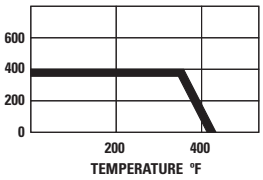
Part Number	Ref. No.	Thd. Size	Rating	A	B	C	D
BBV2	–	⅛″	5.0	1.58	1.38	.31	1.71
BBV4*	BBV25	¼″	10.8	1.58	1.96	.36	3.77
BBV6*	BBV37	⅜″	10.8	1.66	1.96	.48	3.77
BBV8*	BBV50	½″	21.6	2.08	2.41	.59	3.77
BBV12	BBV75	¾″	14.2	2.05	2	.59	3.07
BBV16	BBV100	1″	28.6	2.62	2.58	.79	3.78
BBV20	BBV125	1¼″	56.4	2.9	2.93	.98	3.78
BBV24	BBV150	1½″	114.0	3.28	3.25	1.26	3.78
BBV32	–	2″	162.9	3.81	4.13	1.58	3.78
BBV40	–	2½″	200.0	4.48	5.1	2	7.88
BBV48	–	3″	380.0	5.33	6	2.5	7.88
BBV64	–	4″	550.0	6.86	7	2.96	7.88

*BBV4, BBV6 and BBV8 full port; all others regular port.
Other sizes available in full port; call for stock status and pricing.
CV Rating is the gallons of water per minute passed thru the valve with a 1 PSI pressure drop.

MATERIAL SPECIFICATIONS

Handle Nut .. Coated steel
Handle..... Coated steel
Stem Packing.... Carbolon
Thrust Washer..... PTFE
Stem.....Brass
Ball Chrome-plated brass
Seats ..... PTFE
Body.....Forged brass
End Adapter Forged brass

FORGED BRASS BALL VALVES FXF



Forged Brass Ball Valves

E

Male × Female

- Super-port BBV-MF is a full port, 2-piece ball valve with features only found on more expensive valves
- Extra heavy-duty, bottom-loaded stem with a PTFE thrust washer and Viton O-ring
- PTFE seats, thrust washer and stem packing
- Self cleaning, chromium-plated brass ball for maximum durability

FORGED BRASS BALL VALVES MXF

Pressure Rating	
⅛″–¼″	400 lbs. W.O.G. Non-shock
⅜″–¾″	600 lbs. W.O.G. Non-shock
1″	500 lbs. W.O.G. Non-shock

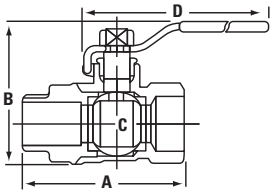
All sizes rated at 150 W.S.P.

Part Number	Ref. No.	Thd. Size	(Mix-N-Match) Rating	A	B	C	D
BBV2MF	–	⅛″	7.2	1.8	1.41	.29	1.72
BBV4MF	BBV25M	¼″	7.7	1.8	1.41	.32	1.65
BBV6MF	BBV37M	⅜″	10.8	2.15	1.7	.39	3.06
BBV8MF	BBV50M	½″	16.7	2.5	1.86	.50	3.06
BBV12MF	BBV75M	¾″	30.3	2.9	2.5	.69	3.81
BBV16MF	BBV100M	1″	59.5	3.33	2.78	.89	3.81

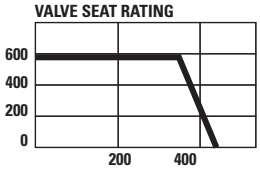
CV Rating is the gallons of water per minute passed thru the valve with a 1 PSI pressure drop.

MATERIAL SPECIFICATIONS

Handle Nut .. Coated steel
Handle..... Coated steel
Packing Nut .....Brass
Stem Packing.... Carbolon
Thrust Washer..... PTFE
Stem.....Brass
Ball Chrome-plated brass
Seats ..... PTFE
Body.....Forged brass
End Adapter Forged brass

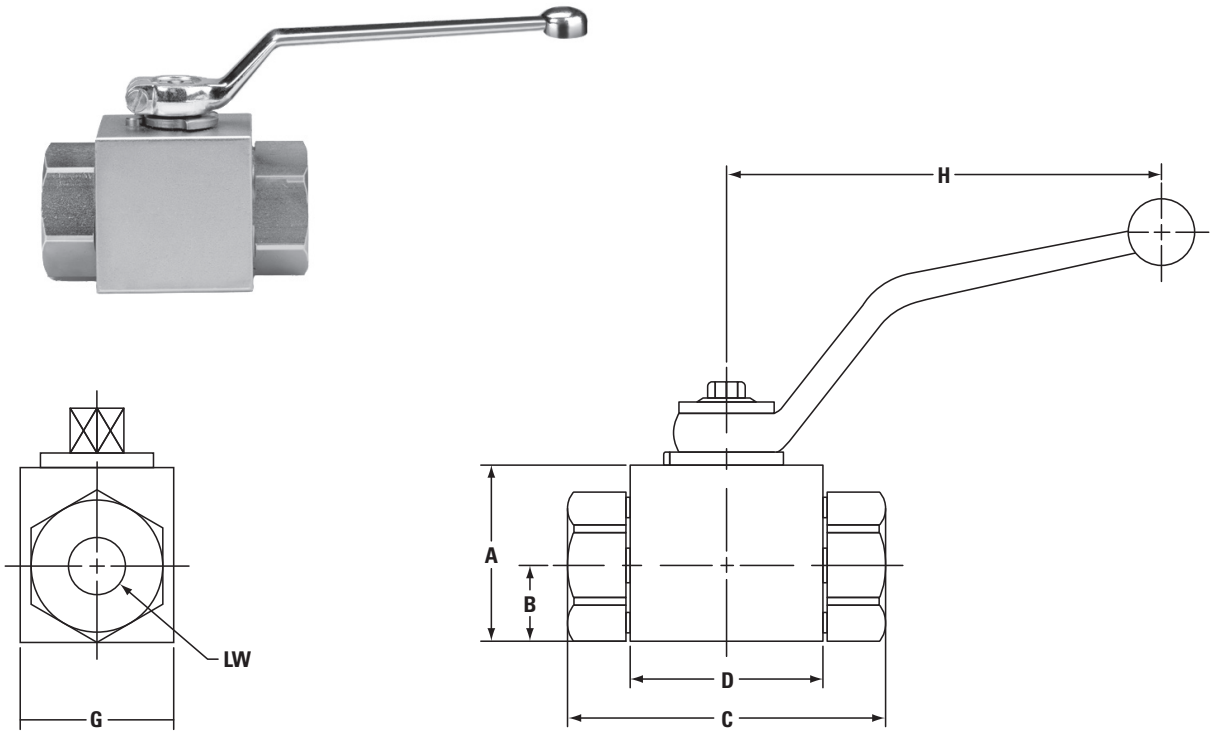


VALVE SEAT RATING



Hi-Pressure Ball Valve

- Carbon steel construction with zinc dichromate plating
- Unrestricted bore up to 1" size
- Maximum working pressure of up to 7250 PSI
- POM ball seats & Buna seal standard
- Optional seal materials available for extreme temperature applications & fluid compatibility



CONTACT US

	Series				A					G			
	NPT	SAE	PSI (max)	Bore	Carbon	Stainless	B	C	D	Carbon	Stainless	H	Weight [lbs.]
Full Bore	AE2N18	N/A	7250	.16	1.38	C/F	0.55	2.80	1.65	1.18	C/F	4.33	1.1
	AE2N14	AE2S4	7250	.24	1.38	1.38	0.55	2.80	1.65	1.18	1.38	4.33	1.1
	AE2N38	AE2S6	7250	.39	1.57	1.57	0.67	2.87	1.73	1.38	1.57	4.33	1.4
	AE2N12	AE2S8	7250	.51	1.69	1.77	0.71	3.27	1.89	1.46	1.77	4.33	1.7
	AE2N34	AE2S12	5800	.79	2.17	2.17	0.91	3.74	2.44	1.77	2.17	7.09	3.1
	AE2N1	AE2S16	5075	.98	2.56	2.56	1.14	4.45	2.60	2.17	2.56	7.09	4.7
Reduced Bore	AE2N1-14R	AE2S20R	5075	.98	2.56	2.56	1.14	4.76	2.60	2.17	2.56	7.09	5.0
	AE2N1-12R	AE2S24R	5075	.98	2.56	2.56	1.14	4.88	2.60	2.17	2.56	7.09	5.2

Model Code Breakdown

AE2 N½ _ 1 1 D B

Valve Series •

Connection Type/Size •

N	NPTE Pipe Thread
S	SAE Straight Thread

Bore Restriction •

blank	Unrestricted Bore
R	Restricted Bore

Body & Adapter Material •

1	Carbon Steel
2	316 Stainless Steel

• **Adapter & Stem Seals**

B	Buna-Standard
V	Viton

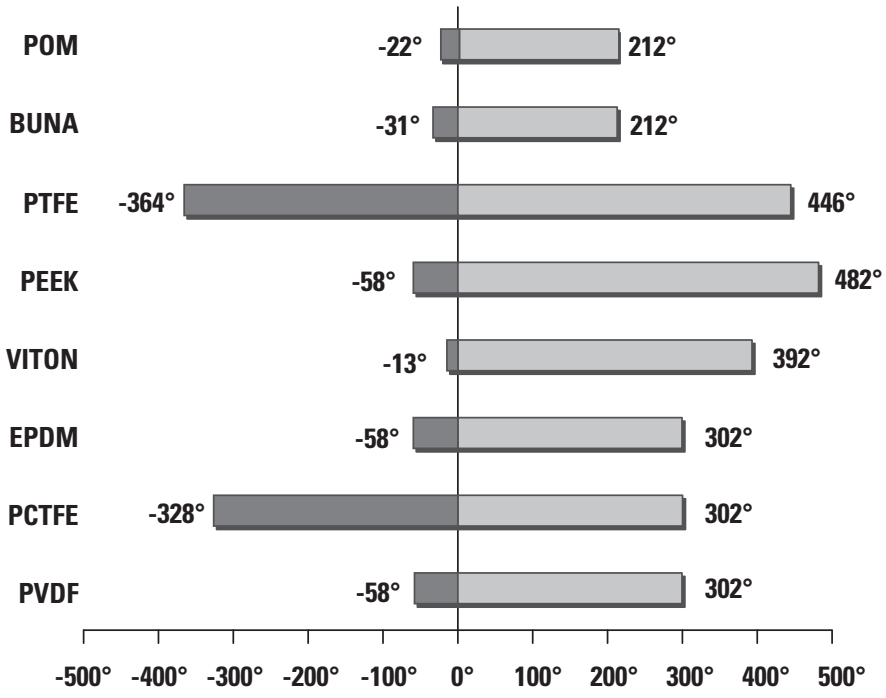
• **Ball Seats**

D	POM-Standard
T	PTFE

• **Ball & Stem Material**

1	Carbon Steel
2	316 Stainless Steel

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

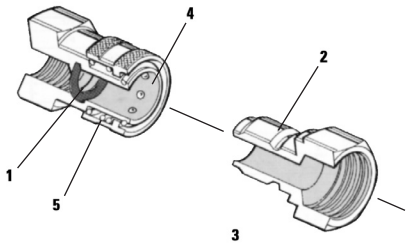


E

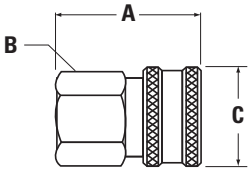
High Flow Couplers

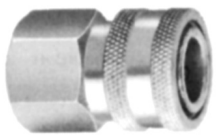
ST SERIES

1. The smooth, open bore with no valving in either half offers minimal pressure drop, allowing easy cleaning in applications where the same lines are used for more than one media.
2. ST couplers and nipples are machined from solid bar stock, providing a quality coupling that is durable. ST couplers are available in brass as standard product materials.
3. ST nipples are available in brass. The ball locking grooves of the brass
   ST nipples are case hardened for resistance to brinelling where high cycle rates and pressure surges are encountered.
4. The ST is an "industrial interchange" coupling since it is dimensionally and functionally interchangeable with similar couplings manufactured by other major manufacturers.



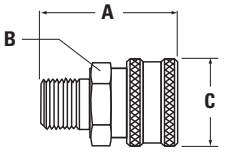
Female Pipe Coupler		Brass	Stainless Steel
Body Size	Thd Size Fem. NPT	Part Number	Part Number
⅛	⅛–27	BST1	SST1
¼	¼–18	BST2	SST2
⅜	⅜–18	BST3	SST3
½	½–14	BST4	SST4
¾	¾–14	BST6	SST6
1″	1–1 11/16	BST8	SST8
1¼″	1¼″–11	BST10	
1½″	1½″–11	BST12	





See table below for dimensions.

Male Pipe Coupler		Brass	Stainless Steel
Body Size	Thd Size Fem. NPT	Part Number	Part Number
⅛	⅛–27	BST1M	SST1M
¼	¼–18	BST2M	SST2M
⅜	⅜–18	BST3M	SST3M
½	½–14	BST4M	SST4M
¾	¾–14	BST6M	SST6M
1″	1–11	BST8M	SST8M



See table below for dimensions.

Dimensions

	Female Pipe			Male Pipe		
	A	B	C	A	B	C
⅛	1.00	.56	.69	1.06	.56	.69
¼	1.47	.81	.94	1.69	.81	.81
⅜	1.59	1.00	1.16	1.75	1.00	1.16
½	1.91	1.13	1.30	1.94	1.13	1.30
¾	2.05	1.44	1.66	2.17	1.44	1.66
1	2.31	1.75	2.02	2.53	1.75	2.02
1¼	2.44	2.00	2.51			
1½	2.88	2.50	3.00			

O-Rings for ST Couplers

Part Number	Coupler Size
ST1OR	⅛
ST2OR	¼
ST3OR	⅜
ST4OR	½
ST6OR	¾
ST8OR	1
ST10OR	1¼
ST12OR	1½

High Flow Nipples

ST SERIES

HIGH FLOW COUPLERS/NIPPLES

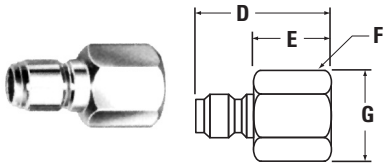
Pressure/Temp Ratings			
Size	Brass	Steel	Stainless
1/8"	2500	2600	4200
1/4"	5200	5500	6700
3/8"	2700	3500	5500
1/2"	2200	2700	3000
3/4"	1700	2700	3000
1"	1200	2000	1700
1 1/4"	1700	Ratings Are	
1 1/2"	1400	In PSI	

–40° to +250° F - Temp Range

- Non-valved for high flow
- Very low pressure drop
- Standard seal material is Buna-N
  - Other material available upon request
- Nipples & couplers interchangeable with similar types from other manufacturers
- Couplers and nipples are available in brass
- High quality, low prices!

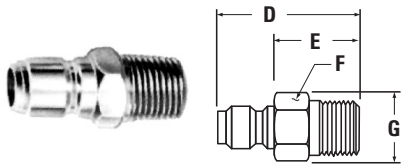
Female Pipe Nipples		Brass	Steel	Stainless Steel
Body Size	Thd Size Fem. NPT	Part Number	Part Number	Part Number
1/8	1/8–27	BSTN1	STN1	SSTN1
1/4	1/4–18	BSTN2	STN2	SSTN2
3/8	3/8–18	BSTN3	STN3	SSTN3
1/2	1/2–14	BSTN4	STN4	SSTN4
3/4	3/4–14	BSTN6	STN6	SSTN6
1"	1–11	BSTN8	STN8	SSTN8
1 1/4"	1 1/4"–11 1/2	BSTN10		
1 1/2"	1 1/2"–11 1/2	BSTN12		

See table below for dimensions.



Male Pipe Nipples		Brass	Steel	Stainless Steel
Body Size	Thd Size Fem. NPT	Part Number	Part Number	Part Number
1/8	1/8–27	BSTN1M	STN1M	SSTN1M
1/4	1/4–18	BSTN2M	STN2M	SSTN2M
3/8	3/8–18	BSTN3M	STN3M	SSTN3M
1/2	1/2–14	BSTN4M	STN4M	SSTN4M
3/4	3/4–14	BSTN6M	STN6M	SSTN6M
1"	1–11	BSTN8M	STN8M	SSTN8M

See table below for dimensions.



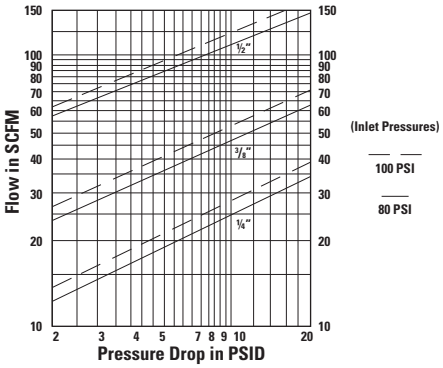
E

Dimensions

	Female Pipe				Male Pipe			
	D	E	F	G	D	E	F	G
1/8	.98	.57	.56	.65	1.04	.63	.44	.51
1/4	1.39	.67	.75	.87	1.53	.81	.56	.65
3/8	2.04	.96	1.38	1.59	1.69	.86	.69	.79
1/2	1.85	.95	1.13	1.30	1.94	1.01	.88	1.01
3/4	2.04	.96	1.38	1.59	2.19	1.11	1.06	1.23
1	2.16	1.00	1.63	1.88	2.51	1.34	1.38	1.59
1 1/4	2.38	1.11	2.00	2.31				
1 1/2	2.81	1.17	2.38	2.74				

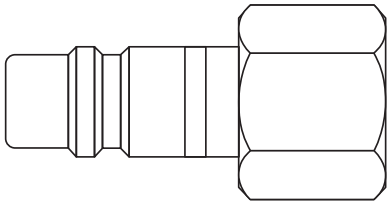
Air Couplers

For Male Fittings Refer to Next Page!!

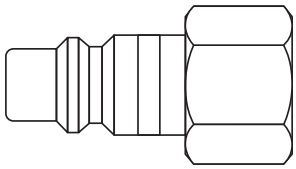


- Solid barstock construction
- High flow/low pressure drop
- 20 series
- Low, low price!
- Off-the-shelf delivery!

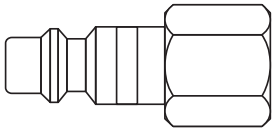
AIR COUPLERS



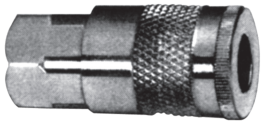
½" BODY SIZE

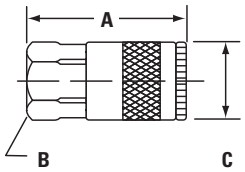


⅜" BODY SIZE



¼" BODY SIZE

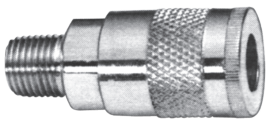


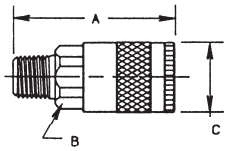


Valved Air Coupler

Female Coupler

Part Number	Body Size	Body Material	Thread Size	Overall A	Hex B	Dia. C
B204F2	¼	Brass	⅛	1.83	.75	.88
B204F4	¼	Brass	¼	1.83	.75	.88
B204F6	¼	Brass	⅜	1.95	.81	.94
206F4	⅜	Steel	¼	2.22	.88	1.06
206F6	⅜	Steel	⅜	2.28	.88	1.06
206F8	⅜	Steel	½	2.55	1.00	1.16
0208F6	½	Steel	⅜	2.74	1.00	1.19
208F8	½	Steel	½	2.96	1.00	1.19
208F12	½	Steel	¾	3.19	.25	1.44

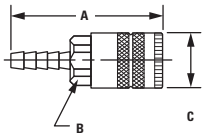




Valved Air Coupler

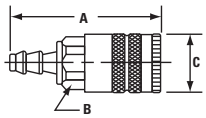
Male Coupler

Part Number	Body Size	Body Material	Thread Size	Overall A	Hex B	Dia. C
B204M2	¼	Brass	⅛	1.89	.75	.88
B204M4	¼	Brass	¼	2.05	.75	.88
B204M6	¼	Brass	⅜	2.08	.75	.88
206M4	⅜	Steel	¼	2.36	.88	1.06
206M6	⅜	Steel	⅜	2.39	.88	1.06
206M8	⅜	Steel	½	2.55	.88	1.06
208M6	½	Steel	⅜	2.93	1.00	1.19
208M8	½	Steel	½	3.08	1.00	1.19
208M12	½	Steel	¾	3.21	1.13	1.19



Hose Barb Coupler

Part Number	Body Size	Body Material	Hose I. D.	Overall A	Hex B	Dia. C
B204HB4	¼	Brass	¼	2.49	.75	.88
B204HB5	¼	Brass	5/16	2.49	.75	.88
B204HB6	¼	Brass	⅜	2.49	.75	.88
206HB6	⅜	Steel	⅜	2.86	.88	1.06
206HB8	⅜	Steel	½	3.08	.88	1.06
208HB6	½	Steel	⅜	3.37	1.00	1.19
208HB8	½	Steel	½	3.62	1.00	1.19
208HB12	½	Steel	¾	3.96	1.00	1.19



Push-Lok® Coupler

Part Number	Body Size	Body Material	Hose I. D.	Overall A	Hex. B	Dia C
B204PL4	¼	Brass	¼	2.49	.75	.88
B204PL6	¼	Brass	⅜	2.49	.75	.88
206PL6	⅜	Steel	⅜	2.49	.75	.88
208PL6	½	Steel	⅜	2.86	.88	1.06
208PL8	½	Steel	½	3.08	.88	1.06

Industrial Interchange Nipples

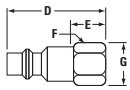
These fit all the couplers pictured above and on previous page. They also will work with any MIL-C4109 Couplers. We provide high-quality parts at everyday low prices! Same day shipping on most orders.

E

INDUSTRIAL INTERCHANGE NIPPLES

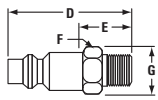
Female Pipe

Part Number	Coupler Size	Female NPT
N204F2	¼	⅛
N204F4	¼	¼
N204F6	¼	⅜
N206F4	⅜	¼
N206F6	⅜	⅜
N206F8	⅜	½
N208F6	½	⅜
N208F8	½	½
N208F12	½	¾



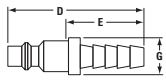
Male Pipe

Part Number	Coupler Size	Male NPT
N204M2	¼	⅛
N204M4	¼	¼
N204M6	¼	⅜
N206M4	⅜	¼
N206M6	⅜	⅜
N206M8	⅜	½
N208M6	½	⅜
N208M8	½	½
N208M12	½	¾



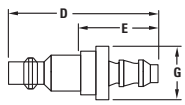
Hose Barb Nipple

Part Number	Coupler Size	Hose I. D.
N204HB4	¼	¼
N204HB5	¼	5/16
N204HB6	¼	⅜
N206HB6	⅜	⅜
N206HB8	⅜	½
N208HB6	½	⅜
N208HB8	½	½
N208HB12	½	¾



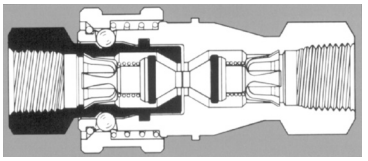
Push-Lok® Nipple

Part Number	Coupler Size	Hose I. D.
N204PL4	¼	¼
N204PL6	¼	⅜
N206PL4	⅜	¼
N206PL6	⅜	⅜
N206PL8	⅜	½
N208PL6	½	⅜
N208PL8	½	½



Hydraulic Couplers

Materials



Steel Body - Body, sleeve & valve are zinc-plated steel. Retaining rings, springs and locking balls are stainless. Buna-N or Viton o-rings are standard.

Female Body - 990

Hydraulic Couplers are double-side, shutoff poppet type in steel, stainless steel and brass. Available with Buna-N or Viton seals. This series is directly interchangeable with Parker 60 Series, Hansen HK Series, Aeroquip FD-45 Series and others.
Hardened nipples & sleeves and solid barstock construction assure a long service life by providing maximum resistance to hydraulic shock and abuse common in industrial applications.

Male Tip - 991

303 Stainless Steel - Body, sleeves, valves, retaining rings, springs and locking balls
are stainless. Buna-N or Viton o-rings are standard.
Brass Body - Body, sleeve and valves are brass. Retaining rings, springs and locking balls are stainless. Buna-N or Viton o-rings are standard.

Female Body Half - Steel

Male Body Half - Steel

Female Body Half - Steel Part Number Buna Seals	Female Body Half - Steel Part Number Viton Seals	Body Material	Thd Size NPT	Male Body Half - Steel Part Number Buna Seals	Male Body Half - Steel Part Number Viton Seals	Tip Material	Thd Size NPT
990-2	990-2V	Steel	¼″	991-2	991-2V	Steel	¼″
990-3	990-3V	Steel	⅜″	991-3	991-3V	Steel	⅜″
990-4	990-4V	Steel	½″	991-4	991-4V	Steel	½″
990-6	990-6V	Steel	¾″	991-6	991-6V	Steel	¾″
990-8	990-8V	Steel	1″	991-8	991-8V	Steel	1″

Female Body Half - Brass

Male Body Half - Brass

Female Body Half - Brass Part Number Buna Seals	Female Body Half - Brass Part Number Viton Seals	Body Material	Thd Size NPT	Male Body Half - Brass Part Number Buna Seals	Male Body Half - Brass Part Number Viton Seals	Tip Material	Thd Size NPT
990-2B	990-2BV	Brass	¼″	991-2B	991-2BV	Brass	¼″
990-3B	990-3BV	Brass	⅜″	991-3B	991-3BV	Brass	⅜″
990-4B	990-4BV	Brass	½″	991-4B	991-4BV	Brass	½″
990-6B	990-6BV	Brass	¾″	991-6B	991-6BV	Brass	¾″
990-8B	990-8BV	Brass	1″	991-8B	991-8BV	Brass	1″

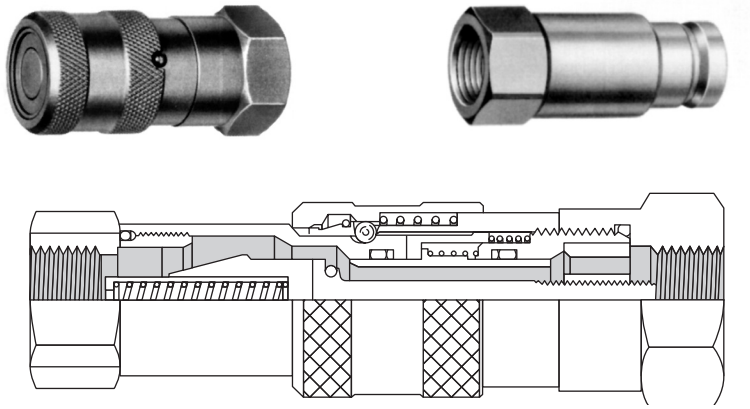
Female Body Half - Stainless Steel

Male Body Half - Stainless Steel

Female Body Half - Stainless Steel Part Number Buna Seals	Female Body Half - Stainless Steel Part Number Viton Seals	Body Material	Thd Size NPT	Male Body Half - Stainless Steel Part Number Buna Seals	Male Body Half - Stainless Steel Part Number Viton Seals	Tip Material	Thd Size NPT
990-2S	990-2SV	Stainless	¼″	991-2S	991-2SV	Stainless	¼″
990-3S	990-3SV	Stainless	⅜″	991-3S	991-3SV	Stainless	⅜″
990-4S	990-4SV	Stainless	½″	991-4S	991-4SV	Stainless	½″
990-6S	990-6SV	Stainless	¾″	991-6S	991-6SV	Stainless	¾″
990-8S	990-8SV	Stainless	1″	991-8S	991-8SV	Stainless	1″

- No-spill coupling design, low air inclusion; 2,500 PSI operating pressure
- Sleeve lock prevents accidental disconnection
- Dust seal is designed into coupling to prevent dirt inclusion into hydraulic system
- Low cost, high pressure

FLAT FACE COUPLERS



Female Couplers

Part Number			
Buna Seals	Viton Seals	Metal	Thread Size NPT
FF990–3	FF990–3V	Steel	⅜″
FF990–4	FF990–4V	Steel	½″

Male Couplers

Part Number			
Buna Seals	Viton Seals	Metal	Thread Size NPT
FF991–3	FF991–3V	Steel	⅜″
FF991–4	FF991–4V	Steel	½″

Water Couplers

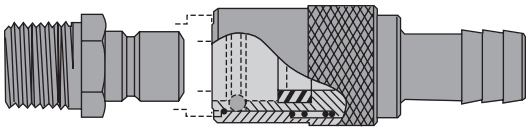
Flow-Thru

DME plugs used with DME Flow-Thru Type Sockets and DME Automatic Shut-off Type Sockets are designed for water, air or oil lines in plastics molds and die cast dies. They feature a combination brass and stainless steel leakproof construction; have a maximum rated capacity of 200 PSI; and withstand temperatures up to 400°F, with supplied Viton seals. DME Sockets can be used interchangeably with the same plugs already in your mold or die. Comparable sizes of both socket types have the same O.D., permitting interchangeability even when the plugs are flush mounted.

Socket Plug

Sockets(Flow-Thru Type)
DME Flow-Thru Type Sockets have a large thru hole to provide unrestricted flow. These quick-connection couplers are available with either straight, 45° or 90° hose stems, or standard female or male NPT threads.
DME Flow-Thru and Automatic Shut-Off Type Sockets have the same O.D., permitting complete interchangeability with plugs installed in your mold or die.
DME Sockets can be used with either male, female or extension plugs.

FLOW THRU WATER COUPLERS



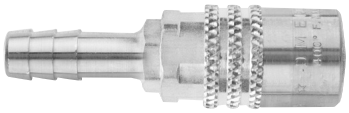
Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Straight Stem	**NS204**	1/4	1/4	NS251-252-253 (F) (FB)
	NS205	1/4	5/16	NS251-252-253 (F) (FB)
	NS206	1/4	3/8	NS251-252-253 (F) (FB)
	NS306	3/8	3/8	NS352-353-354 (F) (FB)
	NS308	3/8	1/2	NS352-353-354 (F) (FB)
	NS308HF*	7/16	1/2	NS352-353-354 (F) (FB)
	NS504	1/2	1/2	NS554 (F)
	NS506	1/2	3/4	NS554 (F)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
45° Stem	**NS224**	1/4	1/4	NS251-252-253 (F) (FB)
	NS225	1/4	5/16	NS251-252-253 (F) (FB)
	NS226	1/4	3/8	NS251-252-253 (F) (FB)
	NS326	3/8	3/8	NS352-353-354 (F) (FB)
	NS328	3/8	1/2	NS352-353-354 (F) (FB)
	NS328HF*	7/16	1/2	NS352-353-354 (F) (FB)
	NS524	1/2	1/2	NS554 (F)
	NS526	1/2	3/4	NS554 (F)

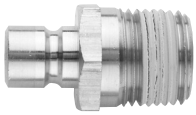
Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
90° Stem	**NS214**	1/4	1/4	NS251-252-253 (F) (FB)
	NS215	1/4	5/16	NS251-252-253 (F) (FB)
	NS216	1/4	3/8	NS251-252-253 (F) (FB)
	NS316	3/8	3/8	NS352-353-354 (F) (FB)
	NS318	3/8	1/2	NS352-353-354 (F) (FB)
	NS318HF*	7/16	1/2	NS352-353-354 (F) (FB)
	NS514	1/2	1/2	NS554 (F)
	NS516	1/2	3/4	NS554 (F)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Socket Only	**NS200**	1/4	1/8 NPT	NS251-252-253 (F) (FB)
	NS300	3/8	1/4 NPT	NS352-353-354 (F) (FB)
	NS300HF*	7/16	3/8 NPT	NS352-353-354 (F) (FB)
	NS500	1/2	1/2 NPT	NS554 (F)

* Indicates High Flow



Socket



Plug

SV-Series Connectors – NS
Two-Way Automatic Shut-Off Type

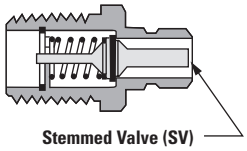
The DME line of SV-Series Connectors features a male plug and socket, each with an automatic shut-off stemmed valve. These connectors are designed for use with plastics molds and die cast dies in water, air or heat transfer oil lines. They feature a combination of brass and stainless steel in a leak-proof construction, have a maximum rated capacity of 200 PSI and will withstand temperatures up to 400°F with supplied Viton seals.

The SV-Series Male Plugs add the capability of automatic shut-off at the mold, thereby minimizing coolant loss.

DME SV-Series Sockets can be used interchangeably with the plugs already in your mold or die. However, the SV-Series Male Plugs can ONLY be used with the SV-Series Sockets. Comparable sizes of both types of sockets and plugs have the same O.D., permitting interchangeability even when the plugs are flush-mounted.

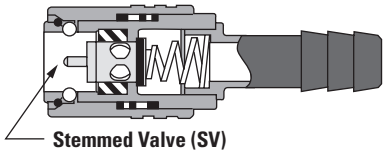
The SV-Series Male Plugs are now supplied with thread sealant. Eliminating the initial need for joint tape or compound, the sealant will withstand temperatures up to 400°F and pressures up to 200 PSI.

SV-Series Male Plugs (Automatic Shut-Off Type with Stemmed Valve)



The DME SV-Series Male Plugs feature an automatic shut-off stemmed valve. This plug design adds the capability of automatic shut-off at the mold. The plug's shut-off stemmed valve minimizes mold coolant loss, thereby decreasing cleanup time and the possibility of rust occurring on the mold surface. The SV-Series Male Plug can ONLY be used with the SV-Series Socket.

SV-Series Sockets (Automatic Shut-Off Type with Stemmed Valve)

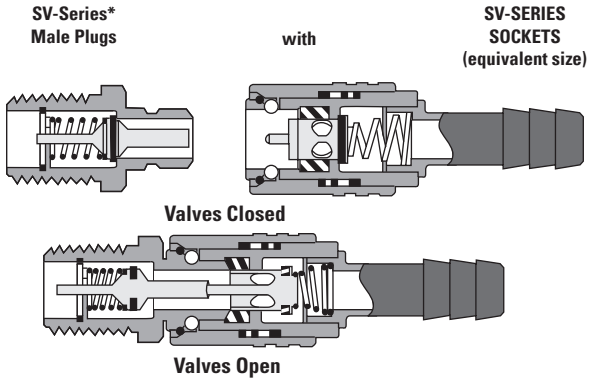


The DME SV-Series Sockets feature an automatic shut-off stemmed valve that is designed to work with the SV-Series Male Plugs, as well as the standard male, female and extension plugs. The sockets open automatically when connected and shut off automatically when disconnected. The SV-Series Sockets are designed to keep flow restriction to a minimum and are available with either straight, 45° or 90° hose stems.

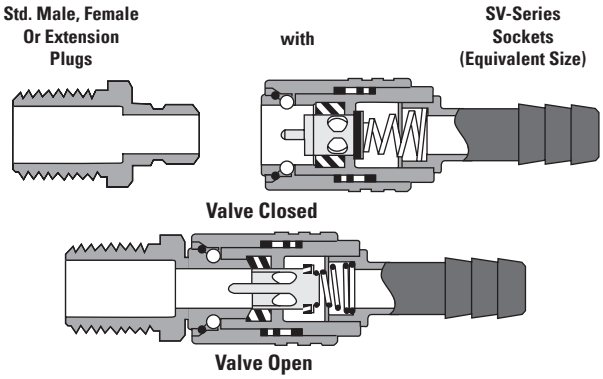
E

Operating Combinations

Two-Way Shut-Off*



One-Way Shut-Off



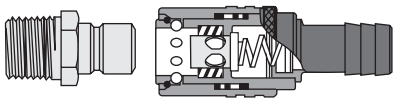
*The SV-Series Male Plugs can only be used for two-way shut-offs and must be used with the SV-Series Sockets.

Water Couplers

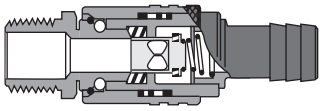
Quick Release, Automatic One-Way Shutoff

DME plugs used with DME Flow-Thru Type Sockets and DME **Automatic** Shutoff Type Sockets are designed for plastics molds and die cast dies in water, air or oil lines. They feature a combination brass and stainless steel leakproof construction; have a maximum rated capacity of 200 PSI; and withstand temperatures up to 400°F, with supplied Viton seals. DME Sockets can be used interchangeably with the same plugs already in your mold or die. Comparable sizes of both socket types have the same O.D., permitting interchangeability even when the plugs are flush mounted.

Socket Plug



Value Closed



Value Open

Sockets(Automatic Shut-Off Type)

DME Automatic Shut-off Type Sockets open automatically when connected and shut off automatically when disconnected. Unlike most valve-type connectors, DME Sockets are designed to keep flow restriction to a minimum.

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Straight Stem	**NS204V**	1/4	1/4	NS251-252-253 (F) (FB)
	NS205V	1/4	5/16	NS251-252-253 (F) (FB)
	NS206V	1/4	3/8	NS251-252-253 (F) (FB)
	NS306V	3/8	3/8	NS352-353-354 (F) (FB)
	NS308V	3/8	1/2	NS352-353-354 (F) (FB)
	NS504V	1/2	1/2	NS554 (F)
	NS506V	1/2	3/4	NS554 (F)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
45° Stem	**NS224V**	1/4	1/4	NS251-252-253 (F) (FB)
	NS225V	1/4	5/16	NS251-252-253 (F) (FB)
	NS226V	1/4	3/8	NS251-252-253 (F) (FB)
	NS326V	3/8	3/8	NS352-353-354 (F) (FB)
	NS328V	3/8	1/2	NS352-353-354 (F) (FB)
	NS524V	1/2	1/2	NS554 (F)
	NS526V	1/2	3/4	NS554 (F)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
90° Stem	**NS214V**	1/4	1/4	NS251-252-253 (F) (FB)
	NS215V	1/4	5/16	NS251-252-253 (F) (FB)
	NS216V	1/4	3/8	NS251-252-253 (F) (FB)
	NS316V	3/8	3/8	NS352-353-354 (F) (FB)
	NS318V	3/8	1/2	NS352-353-354 (F) (FB)
	NS514V	1/2	1/2	NS554 (F)
	NS516V	1/2	3/4	NS554 (F)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Socket Only	**NS200SV**	1/4	1/8 NPT	NS251-252-253 (F) (FB)
	NS300SV	3/8	1/4 NPT	NS252-353-354 (F) (FB)
	NS500SV	1/2	1/2 NPT	NS554 (F)

QUICK RELEASE WATER COUPLERS

Quick Release, Automatic Two-Way Shutoff

CONTACT US

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Straight Stem	**NS204SV**	¼	¼	NS252SV
	NS205SV	¼	5⁄16	NS253SV
	NS206SV	¼	⅜	NS352SV
	NS306SV	⅜	⅜	NS353SV
	NS308SV	⅜	½	NS354SV

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
45° Stem	**NS224SV**	¼	¼	NS252SV
	NS225SV	¼	5⁄16	NS253SV
	NS226SV	¼	⅜	NS352SV
	NS326SV	⅜	⅜	NS353SV
	NS328SV	⅜	½	NS354SV

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
90° Stem	**NS214SV**	¼	¼	NS252SV
	NS215SV	¼	5⁄16	NS253SV
	NS216SV	¼	⅜	NS352SV
	NS316SV	⅜	⅜	NS353SV
	NS318SV	⅜	½	NS354SV

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Socket Only	**NS200SV**	¼	⅛ NPT	NS252SV
	NS300SV	⅜	¼ NPT	NS253SV

E

Water Couplers

Push To Connect/Push To Lock, Flow-Thru Type

With Clampless Hose Stems for use with Push-To-Connect/ Push-To-Lock Type Hose

- For use with push-to-connect/push-to-lock type hose only
- Saves setup time by eliminating the need for hose clamps
- Hose stem barbs mate with "Push-to-Lock" style rubber hose
- Popular sizes for interchangeability with existing and SV Sockets
- More compact and consistently sized than competitive sockets
- Leakproof brass and stainless steel construction
- Replaceable seals and valves for long service life
- Socket connector seals are Viton

PUSH TO CONNECT WATER COUPLERS

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Straight Stem	**NS204PL**	¼	¼	NS252PL
	NS206PL	¼	5/16	NS253PL
	NS306PL	¼	⅜	NS352PL
	NS308PL	⅜	½	NS353PL NS354PL
	NS504PL	⅜	½	NS554 (F)
	NS506PL	7/16	½	NS554 (F)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
45° Stem	**NS224PL**	¼	¼	NS252PL
	NS226PL	¼	⅜	NS253PL
	NS326PL	⅜	⅜	NS352PL
	NS328PL	⅜	½	NS353PL NS354PL
	NS524PL	½	½	NS554 (F)
	NS526PL	½	¾	NS554 (F)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
90° Stem	**NS214PL**	¼	¼	NS252PL
	NS216PL	¼	⅜	NS253PL
	NS316PL	⅜	⅜	NS352PL
	NS318PL	⅜	½	NS353PL NS354PL
	NS514PL	½	½	NS554 (F)
	NS516PL	½	¾	NS554 (F)

Note: Use "Push-to-Lock" type hose only. Connector Sockets are for use with water and water-based coolants only. Although Connector Sockets are suitable for temperatures to 400°F, observe the temperature ratings of your "push-to-lock" hose. Most "push-to-lock" hoses have a temperature rating of 175°F or less. Never exceed 200 PSI.

Push To Connect/Push To Lock, Auto One-Way Shutoff

With Clampless Hose Stems for use with Push-To-Connect/Push-To-Lock Type Hose

- For use with push-to-connect/push-to-lock type hose only
- Saves setup time by eliminating the need for hose clamps
- Hose stem barbs mate with "Push-to-Lock" style rubber hose
- Popular sizes for interchangeability with existing and SV sockets
- More compact and consistently sized than competitive sockets
- Leakproof brass and stainless steel construction
- Replaceable seals and valves for long service life
- Socket connector seals are Viton

PUSH TO CONNECT WATER COUPLERS

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Straight Stem	NS204VPL	¼	¼	NS252
	NS206VPL	¼	⅜	NS253
	NS306VPL	⅜	⅜	NS352
	NS308VPL	⅜	½	NS353 NS354
	NS504VPL	½	½	NS554 (F) (FB) 556 (FB)
	NS506VPL	½	¾	NS554 (F) (FB) 556 (FB)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
45° Stem	NS224VPL	¼	¼	NS252
	NS226VPL	¼	⅜	NS253
	NS326VPL	⅜	⅜	NS352
	NS328VPL	⅜	½	NS353 NS354
	NS524VPL	½	½	NS554 (F) (FB) 556 (FB)
	NS526VPL	½	¾	NS554 (F) (FB) 556 (FB)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
90° Stem	NS214VPL	¼	¼	NS252
	NS216VPL	¼	⅜	NS253
	NS316VPL	⅜	⅜	NS352
	NS318VPL	⅜	½	NS353 NS354

Note: Use "Push-to-Lock" type hose only. Connector Sockets are for use with water and water-based coolants only. Although Connector Sockets are suitable for temperatures to 400°F, observe the temperature ratings of your "push-to-lock" hose. Most "push-to-lock" hoses have a temperature rating of 175°F or less. Never exceed 200 PSI.

Water Couplers

Push To Connect/Push To Lock, Auto Two-Way Shutoff

With Clampless Hose Stems for use with Push-To-Connect/Push-To-Lock Type Hose

- For use with push-to-connect/push-to-lock type hose only
- Saves setup time by eliminating the need for hose clamps
- Hose stem barbs mate with "Push-to-Lock" style rubber hose
- Popular sizes for interchangeability with existing and SV sockets
- More compact and consistently sized than competitive sockets
- Leakproof brass and stainless steel construction
- Replaceable seals and valves for long service life
- Socket connector seals are Viton

PUSH TO CONNECT WATER COUPLERS

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Straight Stem	**NS204SVPL**	¼	¼	NS252SV
	NS206SVPL	¼	⅜	NS253SV
	NS306SVPL	⅜	⅜	NS352SV
	NS308SVPL	⅜	½	NS353SV NS354SV

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
45° Stem	**NS224SVPL**	¼	¼	NS252SV
	NS226SVPL	¼	⅜	NS253SV
	NS326SVPL	⅜	⅜	NS352SV
	NS328SVPL	⅜	½	NS353SV NS354SV

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
90° Stem	**NS214SVPL**	¼	¼	NS252SV
	NS216SVPL	¼	⅜	NS253SV
	NS316SVPL	⅜	⅜	NS352SV
	NS318SVPL	⅜	½	NS353SV NS354SV

Note: Use "Push-to-Lock" type hose only. Connector Sockets are for use with water and water-based coolants only. Although Connector Sockets are suitable for temperatures to 400°F, observe the temperature ratings of your "push-to-lock" hose. Most "push-to-lock" hoses have a temperature rating of 175°F or less. Never exceed 200 PSI.

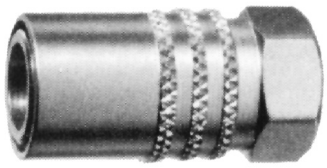
Water Couplers

Valved/Non-Valved

Coupler - Valved & Non-valved body only		
Part Number	**Description**	**Thread Size**
NS200	¼″ Passage - 200 Series	⅛″
NS200SV*	¼″ Passage - 200 Series Valved*	⅛″
NS300	⅜″ Passage - 300 Series	¼″
NS300HF	7⁄16″ Passage - 300 Series High Flow	⅜″
NS300SV*	⅜″ Passage - 300 Series Valved*	¼″
NS500	½″ Passage - 500 Series	½″

*Valved couplers include: Coupler, Valve & Spring - Complete

VALVED-NON VALVED



Positive Sleeve Lock Sockets - Non-valved	
Part Number	**Description**
NS200SL	⅛″ Thread - Use with 200 Series Plug
NS300SL	¼″ Thread - Use with 300 Series Plug
NS300HFSL	⅜″ Thread - Use with 300 Series Plug
NS500SL	½″ Thread - Use with 500 Series Plug

Washers

Part Number	Description
SW200*	Silicone Washers for 200 Series
VW200*	Viton® Washers for 200 Series
SW300*	Silicone Washers for 300 Series
VW300*	Viton® Washers for 300 Series
SW500*	Silicone Washers for 500 Series
VW500*	Viton® Washers for 500 Series

*Add **-12** (for bag of 12) or **-100** (for bag of 100) to the part number.

WASHERS

Temperature Range	Silicone –90F to 400F	Viton –15F to 400F

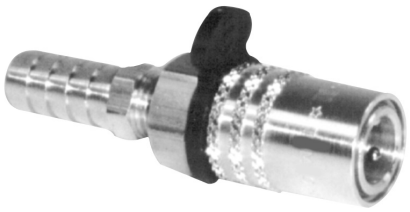
E

Retaining Clips (for water couplers)

Helps prevent accidental release of water couplers

- Avoids unnecessary spills
- Available in 200,300 and 500 series
- 2 colors: red for hot, blue for cold
- Made of nylon
- Universal, fits most water couplers

Fits securely to help prevent release of water coupler

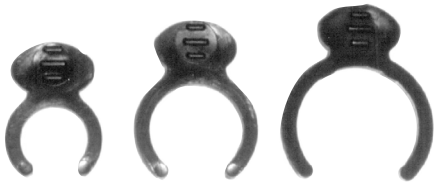


- Max rating is 400 degrees F

Part Number	Series	Inside Diameter	Thickness
C200*	200	.59	.11
C300*	300	.79	.14
C500*	500	1.16	.15

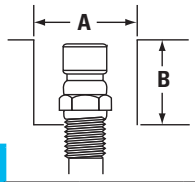
*Add **-R** for red or **-B** for blue

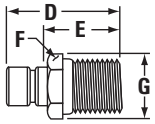
RETAINING CLIPS



Water Plugs

For Mold Connections





MALE PLUGS

Brass & Steel Male Water Plugs

Series	Part Number	Material	Passage Size	NPT Size	Dia. A	Depth B	O.A.L. D	EXP. E	HEX F	LGST. G
200	NS250	Brass	3/16	1/16	.69	.69	.94	.54	.38	.43
	NS251	Brass	1/4	1/8	.69	.69	.94	.54	.56	.51
	NS252	Brass	1/4	1/4	.84	.94	1.13	.74	.56	.67
	NS252S	Steel	1/4	1/4	.84	.94	1.13	.74	.56	.67
	NS253	Brass	1/4	3/8	1.00	.97	1.19	.79	.69	.79
300	NS351	Brass	3/8	1/8	1.00	.94	1.19	.58	.56	.65
	NS352	Brass	3/8	1/4	1.00	.94	1.34	.74	.56	.65
	NS352S	Steel	3/8	1/4	1.00	.94	1.34	.74	.56	.65
	NS353	Brass	3/8	3/8	1.00	1.13	1.38	.78	.69	.79
	NS354	Brass	3/8	1/2	1.18	1.25	1.59	.99	.88	1.01
500	NS554	Brass	1/2	1/2	1.25	1.50	1.69	.92	.88	1.01
	NS556	Brass	1/2	3/4	1.50	1.56	1.75	.99	1.13	1.30

VALVED PLUGS

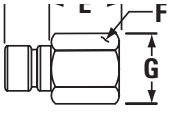
Valved Water Plugs

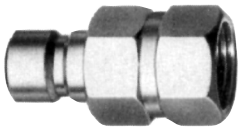
Part Number	Material	Passage Size	NPT Size	Dia. A	Depth B	O.A.L. D	EXP. E	HEX F	LGST. G
NS252SV	Brass	1/4	1/4	.84	.94	1.13	.74	.56	.67
NS253SV	Brass	1/4	1/4	.84	.94	1.13	.74	.56	.67
NS352SV	Brass	3/8	1/4	1.00	.94	1.34	.74	.56	.65
NS353SV	Brass	3/8	3/8	1.00	.94	1.34	.74	.56	.65
NS354SV	Brass	3/8	1/2	1.00	.94	1.34	.74	.56	.65

STEEL FEMALE

Steel Female (plated to prevent rust)

Series	Part Number	Material	Passage Size	NPT Size	O.A.L. D	EXP. E	HEX F	LGST. G
200	NS251F	Steel	1/4	1/8	.97	.58	.50	.58
	NS252F	Steel	1/4	1/4	1.28	.89	.63	.72
	NS253F	Steel	1/4	3/8	1.41	1.03	.75	.87
300	NS352F	Steel	3/8	1/4	1.48	.88	.63	.72
	NS353F	Steel	3/8	3/8	1.58	.98	.75	.87
	NS354F	Steel	3/8	1/2	1.66	1.45	.94	1.09
500	NS554F	Steel	1/2	1/2	1.75	.98	.94	1.07





BRASS FEMALE

Brass Female

Series	Part Number	Material	Passage Size	NPT Size	O.A.L D	EXP. E	HEX F	LGST. G
200	NS250FB	Brass	1/4	1/16	.75	.39	.38	.43
	NS251FB	Brass	1/4	1/8	.97	.58	.50	.58
	NS252FB	Brass	1/4	1/4	1.28	.89	.63	.72
	NS253FB	Brass	1/4	3/8	1.41	1.03	.75	.87
300	NS351FB	Brass	11/32	1/8	1.00	.42	.56	.64
	NS352FB	Brass	3/8	1/4	1.48	.88	.63	.72
	NS353FB	Brass	3/8	3/8	1.58	.98	.75	.87

Pipe Check is an easy way to check a pipe thread. This handy tool can check pipe sizes from 1/16" thru 1/2" for a number of applications.

PC-100

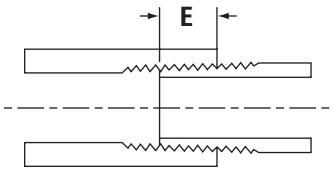
PC-100 simply determines the size of pipes from 1/16" to 1/2" NPT. Made entirely of heavy gauge aluminum, this model is perfect for the office, warehouse, or factory floor. Just turn the thread into the hole that fits to determine pipe size.

PIPE CHECK

Pipe Thread Data

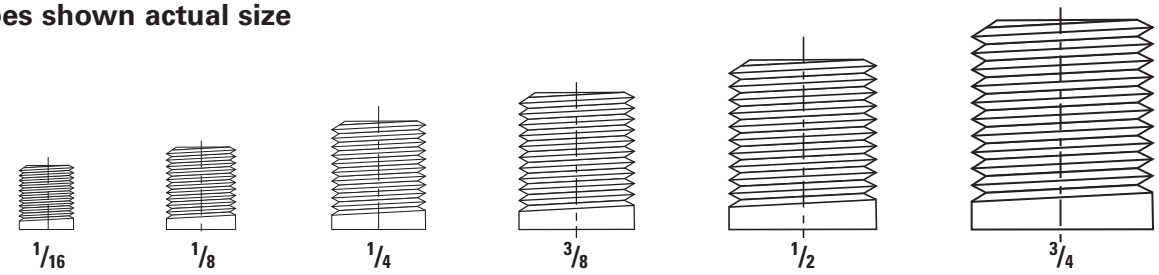
Most ordering mistakes are caused by measuring the pipe size of the fitting or component incorrectly. The nominal size of any pipe does not in fact refer to either the outside diameter (O.D.) or the inside diameter (I.D.) of the pipe. The table lists standard pipe sizes along with the actual O.D. and I.D. for each size. Keep in mind that manufacturers may slightly modify these dimensions to strengthen or enhance the performance of a product.

Pipe Size	Threads Per Inch	Outside Dia. of Pipe	Inside Diameter of Pipe	Tap Drill Size Without Ream	Tap Drill Size With Ream	E
1/16	27	.312	.209	1/4	15/64	.261
1/8	27	.405	.269	11/32	21/64	.263
1/4	18	.540	.364	7/16	27/64	.395
3/8	18	.675	.493	9/16	9/16	.407
1/2	14	.840	.622	45/64	11/16	.534
3/4	14	1.050	.824	29/32	57/64	.545
1	11 1/2	1.315	1.049	1 9/64	1 1/8	.661
1 1/4	11 1/2	1.660	1.380	1 31/64	1 15/32	.681
1 1/2	11 1/2	1.900	1.610	1 23/32	1 45/64	.681
2	11 1/2	2.375	2.067	2 3/16	2 11/64	.697



Once the correct pipe size has been determined, the "E" dimension may be used to determine the length of the component required to assemble properly when fully tightened.

Pipes shown actual size



Extension Plugs

Solid Brass

British Standard Thread also available!

- Positive removal
- Cut to any length
- No rust; brass
- Low, low prices
- In stock!!
- Leak-free extensions
- Flush mount for easy mold handling

EXTENSION PLUGS

1/16" Pipe Extensions

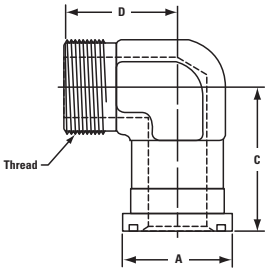
Part Number	Length	Pipe Size	Hex Size	A	Part Number	Length	Pipe Size	Hex Size	A
250X212	2.5"	1/16	3/8	11/16	350X212	2.5"	1/16	9/16	7/8
250X4	4	1/16	3/8	13/16	350X4	4	1/16	9/16	1
250X7	7	1/16	3/8	13/16	350X7	7	1/16	9/16	1
1/8" Pipe Extensions									
251X212	2.5"	1/8	7/16	11/16	351X212	2.5	1/8	9/16	7/8
251X4	4	1/8	7/16	1	351X4	4	1/8	9/16	1
251X512	5.5	1/8	7/16	1	351X512	5.5	1/8	9/16	1
251X7	7	1/8	7/16	1	351X7	7	1/8	9/16	1
251X812	8.5	1/8	7/16	1	351X812	8.5	1/8	9/16	1
251X10	10	1/8	7/16	1	351X10	10	1/8	9/16	1
251X1112	11.5	1/8	7/16	1	351X1112	11.5	1/8	9/16	1
251X13	13	1/8	7/16	1	351X13	13	1/8	9/16	1
1/4" Pipe Extensions									
252X212	2.5"	1/4	9/16	7/8	352X212	2.5"	1/4	9/16	7/8
252X4	4	1/4	9/16	1 1/4	352X4	4	1/4	9/16	1 1/4
252X512	5.5	1/4	9/16	1 1/4	352X512	5.5	1/4	9/16	1 1/4
252X7	7	1/4	9/16	1 1/4	352X7	7	1/4	9/16	1 1/4
252X812	8.5	1/4	9/16	1 1/4	352X812	8.5	1/4	9/16	1 1/4
252X10	10	1/4	9/16	1 1/4	352X10	10	1/4	9/16	1 1/4
252X1112	11.5	1/4	9/16	1 1/4	352X1112	11.5	1/4	9/16	1 1/4
252X13	13	1/4	9/16	1 1/4	352X13	13	1/4	9/16	1 1/4

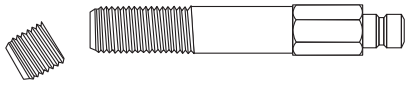
3/8" Pipe Extensions

Part Number	Length	Pipe Size	Hex Size	A
253X212	2.5"	3/8	11/16	1
253X4	4	3/8	11/16	1 1/4
253X512	5.5	3/8	11/16	1 1/4
253X7	7	3/8	11/16	1 1/4
253X812	8.5	3/8	11/16	1 1/4
253X10	10	3/8	11/16	1 1/4
253X1112	11.5	3/8	11/16	1 1/4
253X13	13	3/8	11/16	1 1/4
353X212	2.5"	3/8	11/16	1
353X4	4	3/8	11/16	1 1/4
353X512	5.5	3/8	11/16	1 1/4
353X7	7	3/8	11/16	1 1/4
353X812	8.5	3/8	11/16	1 1/4
353X10	10	3/8	11/16	1 1/4
353X1112	11.5	3/8	11/16	1 1/4
353X13	13	3/8	11/16	1 1/4
553X212	2.5"	3/8	13/16	1 1/8
553X4	4	3/8	13/16	1 3/8
553X512	5.5	3/8	13/16	1 3/8
553X7	7	3/8	13/16	1 3/8
553X812	8.5	3/8	13/16	1 3/8
553X10	10	3/8	13/16	1 3/8
553X1112	11.5	3/8	13/16	1 3/8
553X13	13	3/8	13/16	1 3/8

1/2" Pipe Extensions

Part Number	Length	Pipe Size	Hex Size	A
354X212	2.5"	1/2	7/8	1 1/8
354X4	4	1/2	7/8	1 1/2
354X512	5.5	1/2	7/8	1 1/2
354X7	7	1/2	7/8	1 1/2
354X812	8.5	1/2	7/8	1 1/2
354X10	10	1/2	7/8	1 1/2
354X1112	11.5	1/2	7/8	1 1/2
354X13	13	1/2	7/8	1 1/2
554X212	2.5"	1/2	7/8	1 1/8
554X4	4	1/2	7/8	1 1/2
554X512	5.5	1/2	7/8	1 1/2
554X7	7	1/2	7/8	1 1/2
554X812	8.5	1/2	7/8	1 1/2
554X10	10	1/2	7/8	1 1/2
554X1112	11.5	1/2	7/8	1 1/2
554X13	13	1/2	7/8	1 1/2





Simply cut piece to length and chamfer end. Turn into standard pipe threading die to retaper end threads. Pre-cut threads allow die to turn easily, and guide the die for smooth threads that are always straight and square.

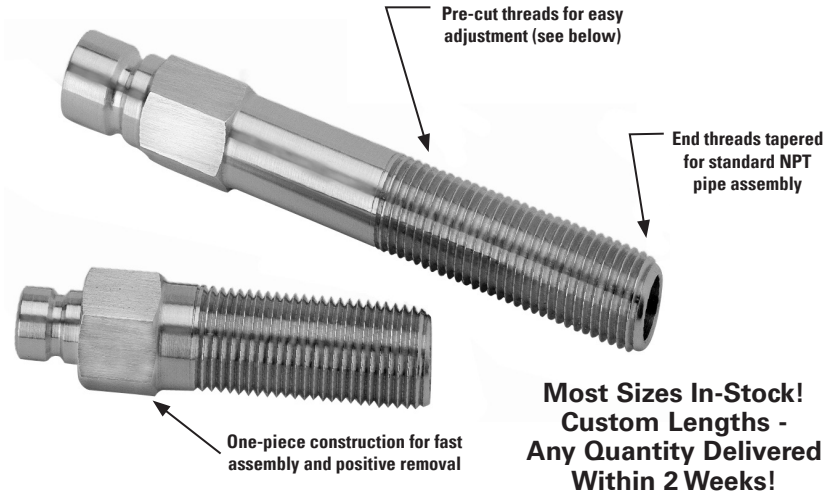
Extension Plugs

Solid Brass

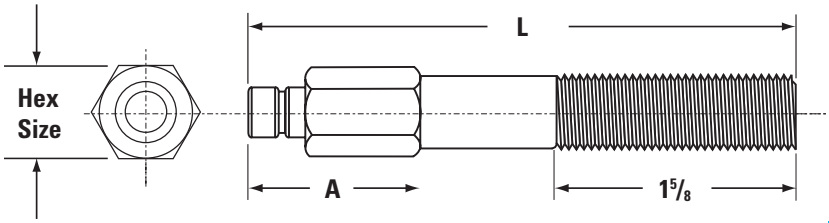
Brass Extension Plugs are designed to eliminate the installation problems of soldering, welding, etc. of connector plugs to steel pipe nipples. Length adjustments (when required) are easy and accurate with pre-cut pipe thread system.

Once installed, the advantages of flush-mounted mold connector plugs are many. Sealing surfaces of plugs are protected, while handling and storage of the mold are made easier.

Brass Extension Plugs offer ease of installation, leak-free performance, and complete removability. In stock in all standard lengths and thread sizes, these extensions may also be ordered cut to any exact length required, and in any quantity.



Most Sizes In-Stock! Custom Lengths - Any Quantity Delivered Within 2 Weeks!

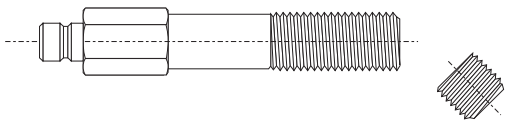


E

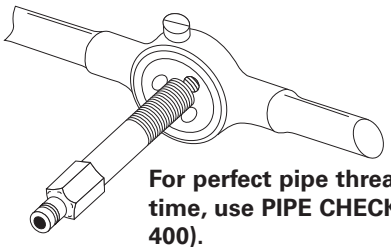
Custom Lengths Are Easy to Make!

Length Adjustments & Installation

1. When special length adjustments are required, simply cut piece to length and chamfer end.

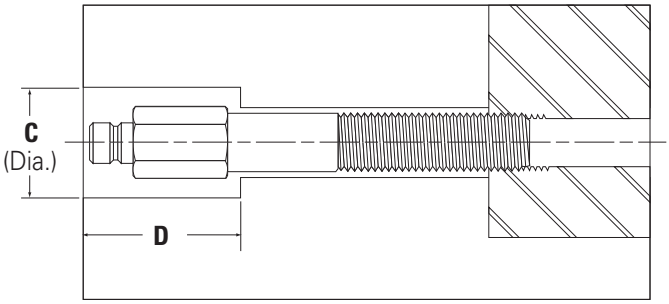


2. Turn into standard pipe threading die to re-taper threads.



For perfect pipe threads every time, use PIPE CHECK (see Page 400).

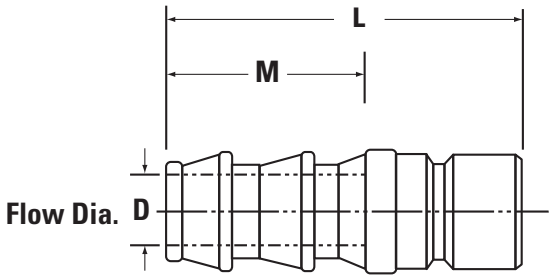
3. At assembly, the tapered brass threads provide a dependable, leak-proof seal. With one-piece construction, removability is always guaranteed.



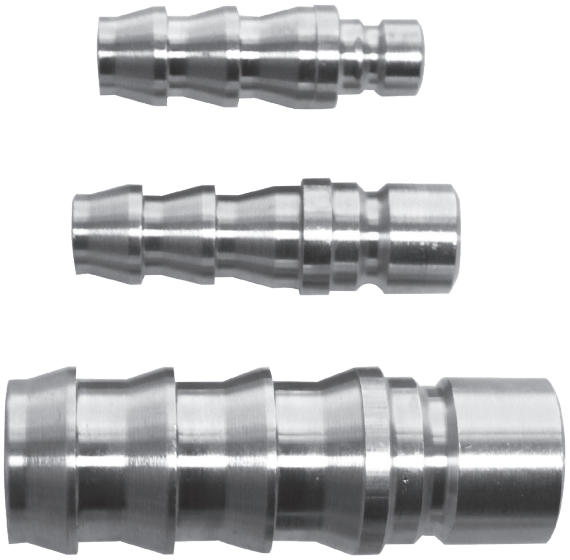
Extension Series	C (Dia.)	D
250	¾	1
251	⅞	1¼
252	1	1½
253	1⅛	1½
350	1	1¼
351	1	1¼
352	1	1½
353	1⅛	1½
554	1½	1¾
553	1⅜	1⅝
554	1½	1¾

Combination Hose Insert

Our Combination Hose Inserts offer compact, versatile connections without the use of multiple fittings and assemblies. When machine cooling manifolds are equipped with socket connector bodies, hoses should have a combination hose insert on one end, and a socket connector on the other. In this way, hoses may be connected from manifold to mold, or snapped together in series for longer-reach situations.



COMBINATION HOSE BARBS



	Part Number	Hose I.D.	Dimensions		
			D	M	L
200 SERIES ¼" Hole	**200-4**	¼	3/16	7/8	1 3/8
	200-5	5/16	¼	7/8	1 3/8
	200-6	3/8	¼	1 1/16	1 9/16
	200-8	½	¼	1 1/16	1 9/16

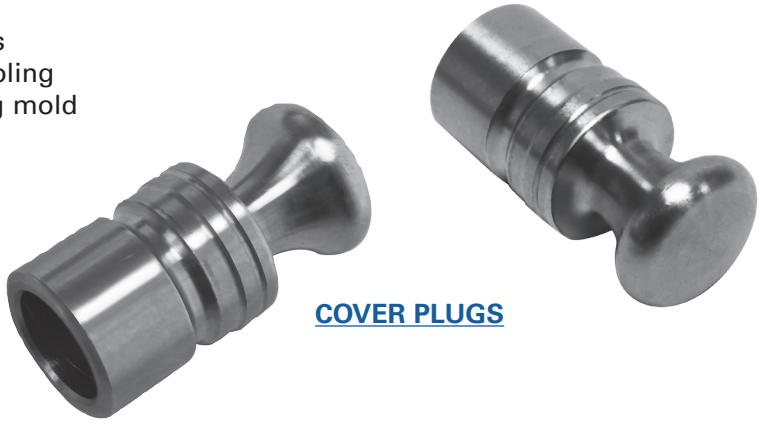
	Part Number	Hose I.D.	Dimensions		
			D	M	L
300 SERIES ⅜" Hole	**300-4**	¼	3/16	7/8	1 13/16
	300-6	3/8	9/32	1 1/16	1 13/16
	300-8	½	11/32	1 1/16	1 13/16

	Part Number	Hose I.D.	Dimensions		
			D	M	L
500 SERIES ½" Hole	**500-8**	½	13/32	11/16	2
	500-12	¾	9/16	1½	2½

Cover Plugs

Mold Cover Plugs conveniently snap into socket connectors to stop coolant flow. Uses include plugging extra ports on machine cooling manifolds, and to stop hose drainage during mold changes.

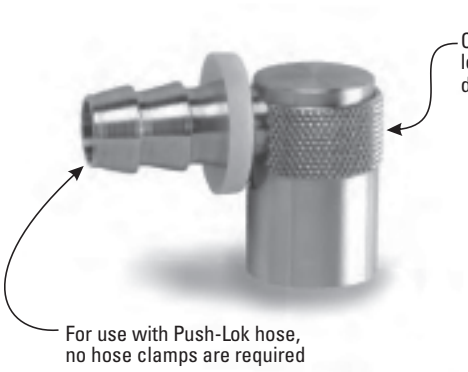
Part Number	Fits Socket Number
CP200	200 (¼" nominal)
CP300	300 (⅜" nominal)
CP500	500 (½" nominal)

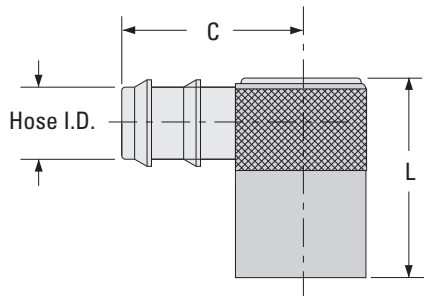


COVER PLUGS

Quick-Coupler Water Jumpers

Standard

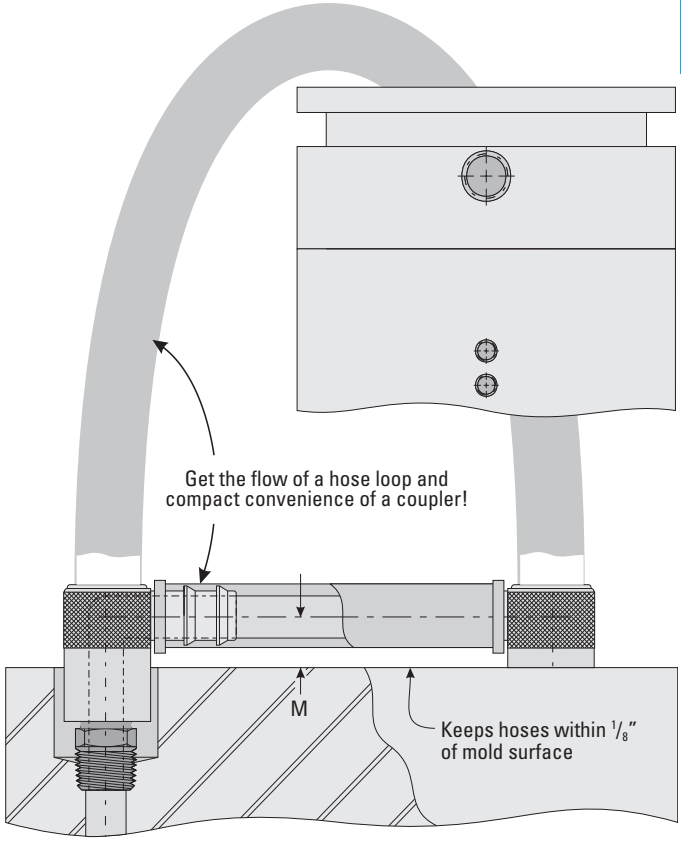




WATER JUMPERS

Part Number	Hose I.D.	Fits Plug Series No.	Measurements (refer to drawings) L	C	M
WJ200-4	1/4	200	1	1 1/4	3/8
WJ200-5	5/16	200	1	1 1/4	3/8
WJ200-6	3/8	200	1	1 1/4	3/8
WJ300-6	3/8	300	1 7/16	1 9/16	1/2
WJ300-8	1/2	300	1 7/16	1 9/16	1/2
WJ500-8	1/2	500	2 1/8	2	7/8
WJ500-12	3/4	500	2 1/8	2	7/8

- Oversized and unrestricted flow path maintains full flow rate of hose used
- Compact design neatly and safely holds cooling lines close to the mold surface
- Exclusive Locking Sleeve prevents accidental disconnect and ensures proper installation
- Unlimited installation options; fits around obstacles, and installs in compact spaces
- All brass and stainless steel construction
- Viton seals withstand temps up to 400°F
- Compatible with all major mold connection systems

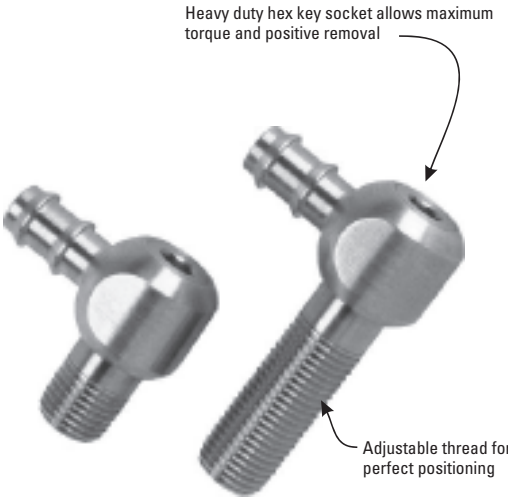


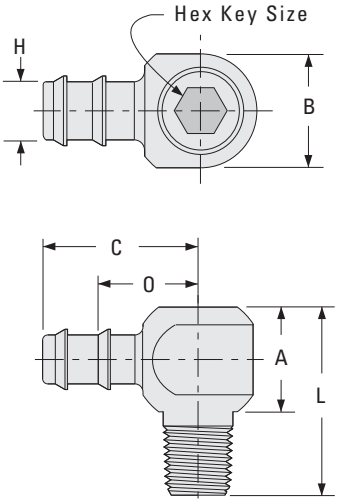
E

Quick Coupler Water Jumpers

Swivel Head

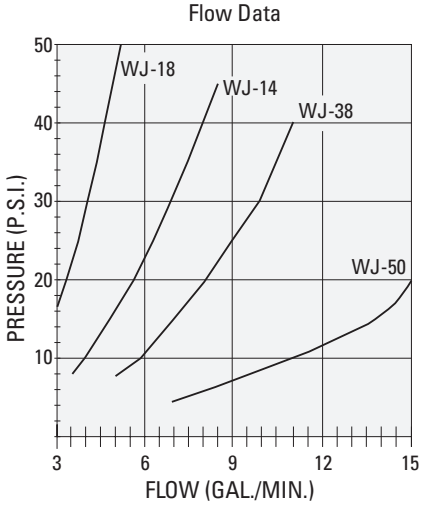
- Can be fully recessed to prevent accidental disconnect or damage
- Swivel body allows for installation in tight spaces
- Eliminate crimped hoses and setup errors
- Viton O-ring seals
- All brass construction
- Easy hex key installation
- Custom length water jumpers available

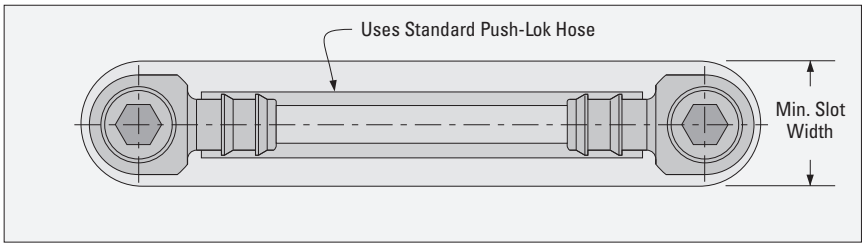


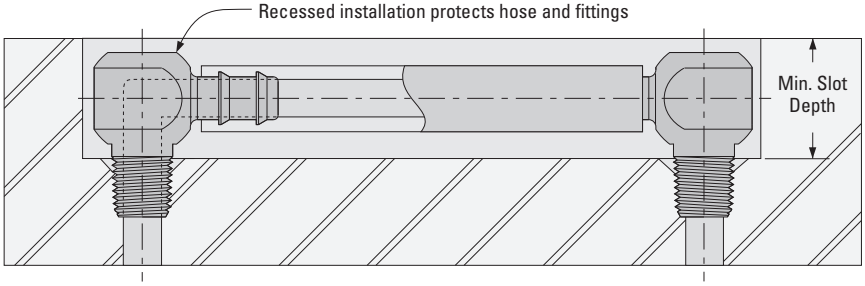


WATER JUMPERS

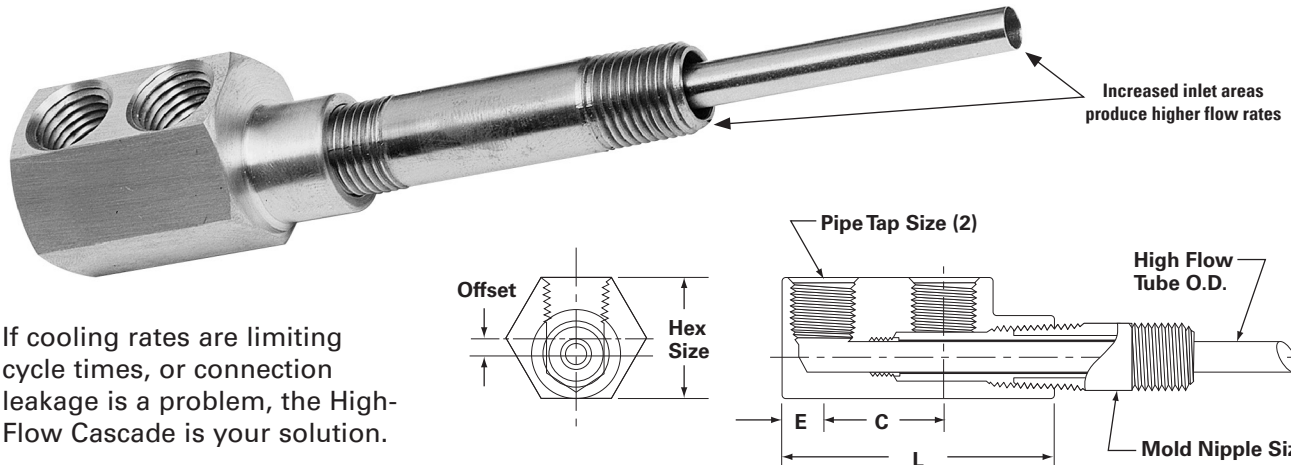
Part Number	Pipe Size (NPT)	Hose I.D.	Hex Key Size	Measurements (refer to drawing above) L	A	C	O	B	For Recessed Installation Min. Slot Width	Min. Slot Depth
WJ18S	1/8	5/16	3/16	1 3/16	11/16	1	5/8	.660	11/16	1
WJ18M	1/8	5/16	3/16	2	11/16	1	5/8	.660	11/16	1
WJ18L	1/8	5/16	3/16	3 1/2	11/16	1	5/8	.660	11/16	1
WJ14S	1/4	3/8	1/4	1 7/16	13/16	1 3/16	25/32	.840	7/8	1 3/16
WJ14M	1/4	3/8	1/4	2 3/8	13/16	1 3/16	25/32	.840	7/8	1 3/16
WJ14L	1/4	3/8	1/4	3 7/8	13/16	1 3/16	25/32	.840	7/8	1 3/16
WJ38S	3/8	1/2	5/16	1 5/8	1	1 3/8	15/16	.980	1	1 3/8
WJ38M	3/8	1/2	5/16	2 5/8	1	1 3/8	15/16	.980	1	1 3/8
WJ38L	3/8	1/2	5/16	4 1/8	1	1 3/8	15/16	.980	1	1 3/8
WJ50S	1/2	3/4	3/8	2	1 1/8	1 1/2	1 1/8	1.235	1 1/4	1 9/16
WJ50M	1/2	3/4	3/8	3	1 1/8	1 1/2	1 1/8	1.235	1 1/4	1 9/16
WJ50L	1/2	3/4	3/8	4 1/2	1 1/8	1 1/2	1 1/8	1.235	1 1/4	1 9/16



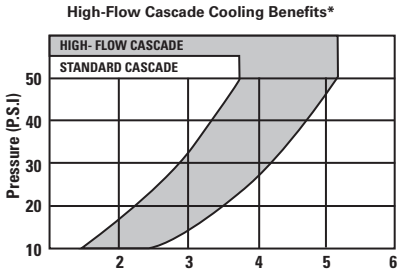




To Increase Production up to 65% Just Add Water



If cooling rates are limiting cycle times, or connection leakage is a problem, the High-Flow Cascade is your solution.



*The performance of the High-Flow Cascade Series was recently tested and compared to existing nipple-type cascades through experimentation conducted at the University of Wisconsin-Milwaukee.

A computerized heat transfer analysis was conducted and an overall energy balance was performed. It was found that the heat transfer rate was dependent largely on the mass flow rate of the coolant. The greater the mass flow rate of the coolant, the greater the overall heat transfer rate of the cascade. The test results are summarized in graphical form and shown above.

This data shows the new design creates a 35%–65% increase in overall cooling rates.

The High-Flow Cascade Series has been engineered to provide the mold user with a leak-free cooling system capable of maintaining faster cycle time settings.

Tests have proven that the High-Flow Cascade Water Junction cools between 35%–65% faster, and eliminates leaks caused by pipe nipple interference.*

The High-Flow Cascade increases flow rates by using a thin-walled stainless steel tube and a new offset design. By eliminating the pipe plug and offsetting the mold nipple in the brass head, all connecting pipes can be completely tightened without interference or choking off flow. The High-Flow stainless tubes can be adjusted to any length and are threaded into the solid brass head for firm support.

Basic sizes and center distances are interchangeable with existing units. Brass heads can be ordered separately along with tubes in any length.

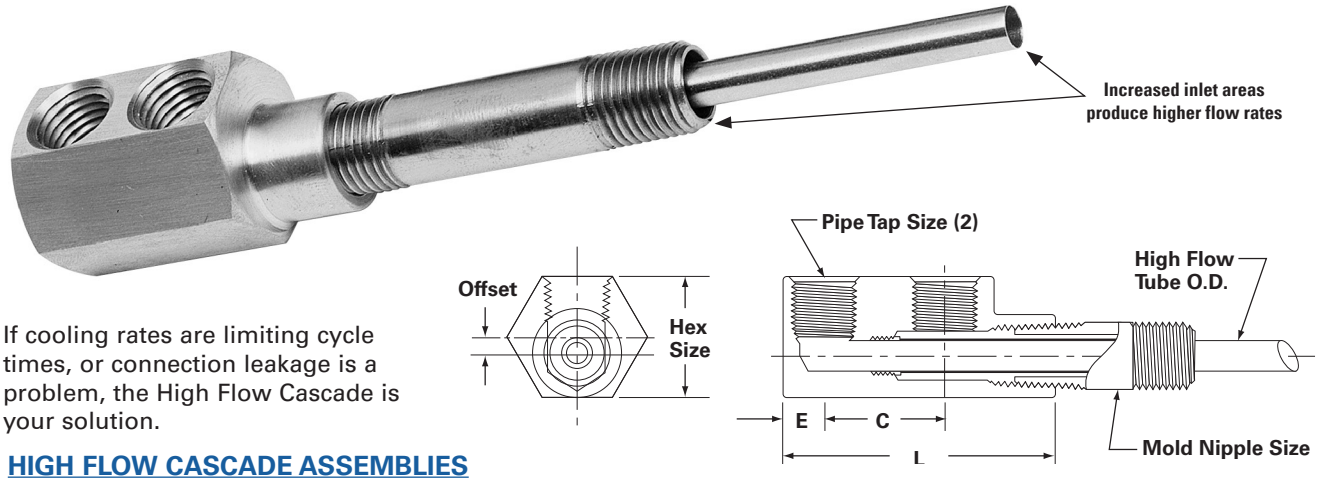
If water junction cooling rates are limiting your cycle times, or connection leakage is a problem, the High-Flow Cascade Water Junction is your solution.

Cascade Assemblies

High-Flow

See the table below for complete dimensional design data. The table also shows the actual percent increase in cooling that a particular cascade will produce compared to a corresponding standard flow model.

Please note tube thread size (when using tubes only), and offset dimension (for swing clearance on internal installations).



If cooling rates are limiting cycle times, or connection leakage is a problem, the High Flow Cascade is your solution.

HIGH FLOW CASCADE ASSEMBLIES

Mold Part Number	In/Out Nipple (NPT)	Tube Pipe Sz. (NPT)	O.D. (12" lg)	Hex Size	Offset	E	C	L	% Actual Flow Increase
HF16N	1/16	1/16	1/8	5/8	3/32	1/4	1/2	1 1/4	–
HF186N	1/8	1/8	3/16	3/4	3/32	5/16	11/16	1 5/8	64%
HF181N	1/8	1/8	3/16	3/4	3/32	5/16	1	1 15/16	64%
HF146N4	1/4	1/4	1/4	1	5/32	11/32	11/16	1 7/8	48%
HF141N4	1/4	1/4	1/4	1	5/32	11/32	1	2 3/16	48%
HF381N4	3/8	1/4	3/8	1	1/8	11/32	1	2 1/4	38%

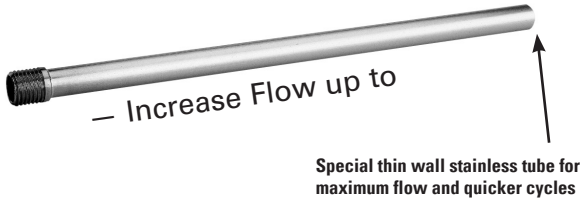
High-Flow Cascade Heads

All dimensions same as above for corresponding part number. Use High-Flow Tubes only.

Part Number	High Flow Tube No.
HF16H	HF125T
HF186H	HF187T
HF181H	HF187T
HF146H4	HF250T
HF141H4	HF250T
HF381H4	HF375T

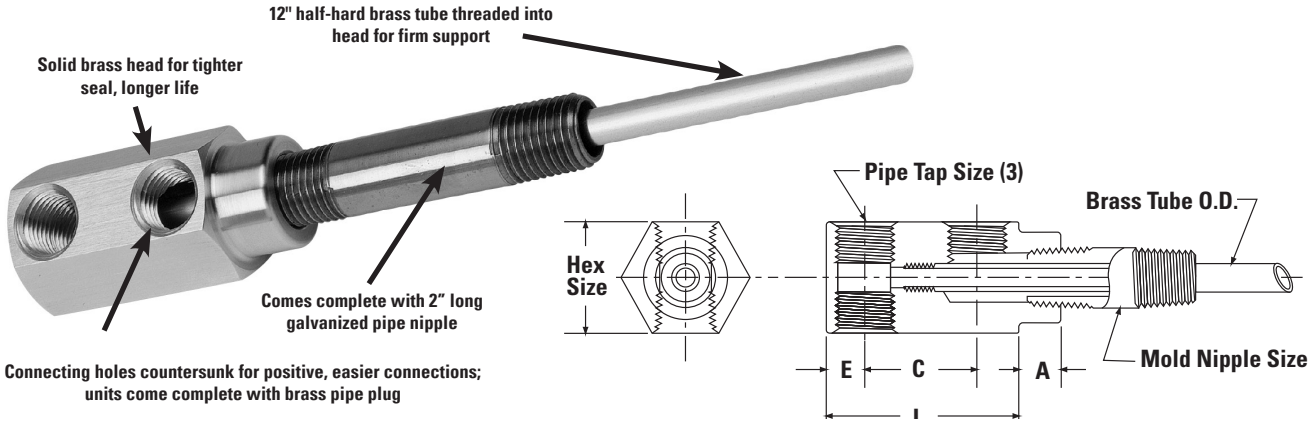
High-Flow Cascade Tubes

Thin-walled stainless steel tubes have precision threaded end.
Please note thread size when using tubes only.



Part Number	Tube O.D.	Tube I.D.	Tube Length	Std. Thread Size	Thread Length
HF125T	.125	.105	12"	10–32	3/16
HF187T	.187	.167	12"	1/4–28	1/4
HF250T	.250	.230	12"	5/16–24	5/16
HF312T	.312	.280	12"	3/8–24	3/8
HF375T	.375	.335	12"	7/16–20	7/16

Nipple Type Cascade



Nipple Type Cascades

Part Number	Nipple Size	Tap Size (NPT)	Tube O.D.*	Hex Size	E	C	A	L
16N	1/8	1/16	3/16	3/4	7/32	1/2	9/32	15/16
186N	1/8	1/8	3/16	7/8	21/64	11/16	9/32	1 1/32
181N	1/8	1/8	3/16	7/8	21/64	1	9/32	1 21/32
146N	1/4	1/8	1/4	1	21/64	11/16	7/32	1 11/32
146N4	1/4	1/4	1/4	1	21/64	11/16	7/32	1 11/32
141N	1/4	1/8	1/4	1	21/64	1	7/16	1 21/32
141N4	1/4	1/4	1/4	1	21/64	1	7/16	1 21/32
381N	3/8	1/8	5/16	1	11/32	1	13/32	1 11/16
381N4	3/8	1/4	5/16	1	11/32	1	13/32	1 11/16
121N4	1/2	1/4	7/16	1 1/4	13/32	1	9/16	1 13/16
341N4	3/4	3/8	5/8	1 1/2	1/2	1 1/4	3/4	2 1/4

*Extra length Tubes available from stock.

NIPPLE TYPE CASCADE

E

Extension Tubes & Cascade Heads

Half-hard brass extension tubes - one end threaded for easy assembly. Tubes are also available with both ends threaded, and in custom lengths.

EXTENSION TUBES

Extension Tubes

Part Number	Tube O. D.	Tube I. D.	Tube Length*	Thread	Thread Length
125T	.125	.062	12	5–44	3/16
187T	.187	.123	12	10–32	3/16
250T	.250	.170	12	1/4–28	1/4
312T	.312	.210	12	5/16–24	5/16
375T	.375	.273	12	3/8–24	3/8
437T	.437	.307	12	7/16–20	7/16
625T	.625	.495	12	5/8–18	5/8

*Extra length Tubes available

SOLID BRASS CASCADE HEADS

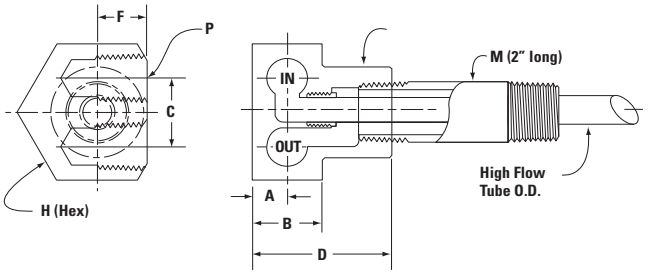
Cascade Heads

Part Number	Tube Number
16H	187 T
186H	
181H	
146H	250 T
146H4	
141H	
141H4	
381H	312 T
381H4	
121H4	437 T
341H4	625 T

Solid Brass Cascade Heads
All holes threaded. All dimensions same as above for corresponding part number. Complete with brass pipe plug.

Compact Cascades

Compact Cascades are designed for use where a standard Nipple-Type or One-Piece Cascade may not fit. Ports are positioned sideways for mounting into thin mold plates, or where other cooling lines limit clearances for pipe connections. Tube and mold nipple length adjustments are made exactly as with a Nipple-Type Cascade. Flow rates are equivalent, and no pipe plugs are required. These units are available in four sizes, and are in stock for immediate delivery.



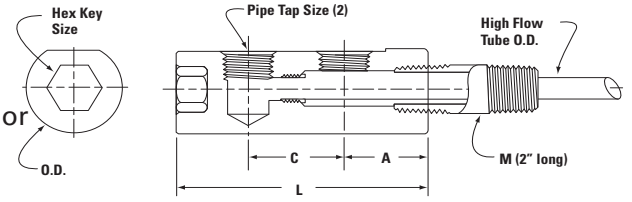
COMPACT CASCADE

Mold Part Number	Pipe Nipple M	Hex Tap P	Tube Size H	O.D. T	A	B	C	D	E
ET1816	1/8	1/16	15/16	3/16	7/32	7/16	1/2	1	5/8
ET1418	1/4	1/8	1 1/4	1/4	5/16	5/8	11/16	1 1/4	3/4
ET1414	1/4	1/4	1 1/2	1/4	3/8	3/4	3/4	1 1/2	7/8
ET3814	3/8	1/4	1 1/2	5/16	3/8	3/4	3/4	1 1/2	1

Hex Cascade Assemblies

- High-flow design provides maximum cooling ratings
- Easy to install and remove
- Assemblies include brass head, 12" high-flow stainless tube, and 2" long galvanized pipe nipple

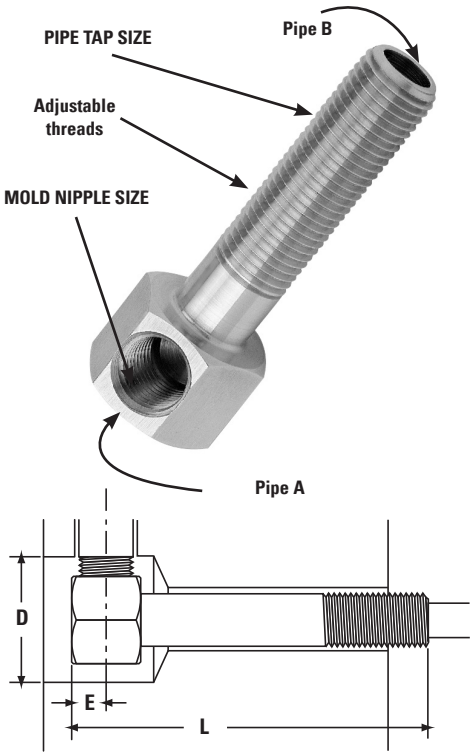
HEX CASCADE



Hex Key Cascades are round and install with an Allen wrench. They may be installed with minimal clearance or very close together where space is limited.

Mold Part Number	Pipe Nipple M	High Flow Tap Size	Tube O.D. (12" LG)	L	C	A	Hex Key Size	Nominal Clearance Drill	Actual O.D.
E16N	1/16	1/16	1/8	1.625	9/16	1/2	5/16	5/8	.610
E16N2	1/8	1/16	3/16	1.687	9/16	9/16	3/8	3/4	.735
E186N	1/8	1/8	3/16	1.875	11/16	9/16	3/8	7/8	.860
E181N	1/8	1/8	3/16	2.187	1	9/16	3/8	7/8	.860
E146N	1/4	1/8	1/4	2.187	11/16	13/16	1/2	1	.985
E146N4	1/4	1/4	1/4	2.312	11/16	7/8	1/2	1	.985
E141N	1/4	1/8	1/4	2.500	1	13/16	1/2	1	.985
E141N4	1/4	1/4	1/4	2.625	1	7/8	1/2	1	.985
E381N4	3/8	1/4	5/16	2.625	1	7/8	1/2	1	.985
E121N4	1/2	1/4	3/8	2.812	1	1	1/2	1 1/4	1.235

BRASS EXTENSION ELBOWS



Solid Brass Hex Extension Elbows feature one-piece re-direction of mold cooling lines and adjustable threads for easy alignment in the mold. Socket wrench installation requires minimum turning clearance, while one-piece construction ensures complete removal...every time!

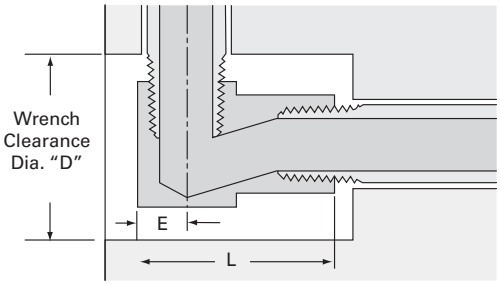
Part Number	Nipple Size	Tap Size	Hex Size	D	E	L*
18BX212	1/8	1/8	3/4	1 1/4	9/32	2 1/2
18BX4	1/8	1/8	3/4	1 1/4	9/32	4
1814BX212	1/4	1/8	3/4	1 1/4	9/32	2 1/2
1814BX4	1/4	1/8	3/4	1 1/4	9/32	4
14BX212	1/4	1/4	7/8	1 3/8	11/32	2 1/2
14BX4	1/4	1/4	7/8	1 3/8	11/32	4
1438BX212	3/8	1/4	7/8	1 3/8	11/32	2 1/2
1438BX4	3/8	1/4	7/8	1 3/8	11/32	4
38BX212	3/8	3/8	1	1 1/2	1/2	2 1/2
38BX4	3/8	3/8	1	1 1/2	1/2	4
50BX212	1/2	1/2	1 1/4	1 3/4	5/8	2 1/2
50BX4	1/2	1/2	1 1/4	1 3/4	5/8	4

* Longer length Extension Elbows are available

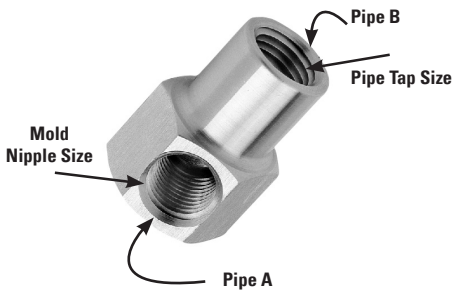
E

Steel Hex Elbows

Steel Hex Elbows are used in longer reach applications or where a steel pipe nipple assembly is required. Outside, these elbows offer easy socket wrench installation, and minimum turning clearance "D". Inside, is an exclusive angular connecting hole (see diagram), which allows pipes to be torqued tight without choking off flow. These elbows are available in pipe sizes from 1/16" to 3/4" NPT, and are zinc plated to resist rust and corrosion.

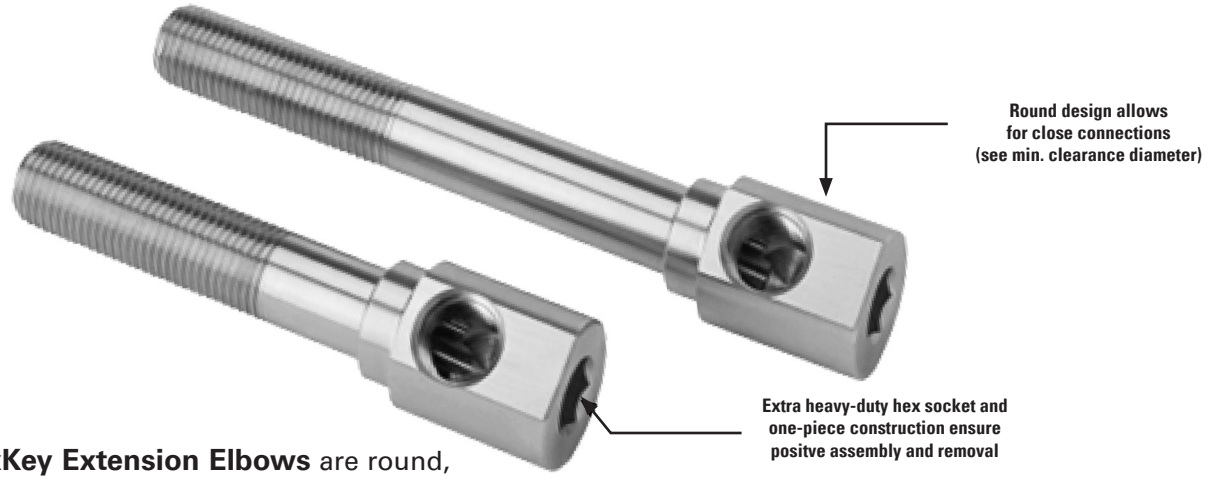


STEEL HEX ELBOWS



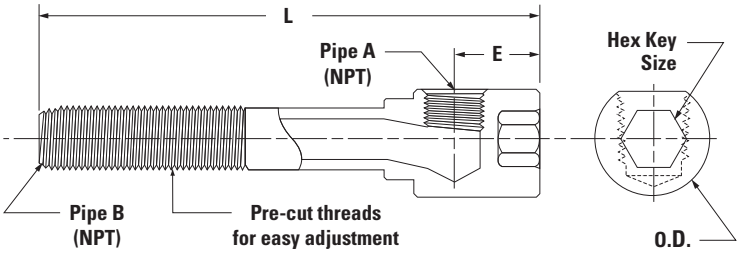
Part Number	Nipple Size	Tap Size (NPT)	Hex Size	L	E	Wrench Clearance "D"
16S	1/16	1/16	9/16	13/16	7/32	1
18S	1/8	1/8	3/4	1	9/32	1 1/4
1814S	1/8	1/4	3/4	1 1/4	9/32	1 1/4
14S	1/4	1/4	7/8	1 3/8	11/32	1 3/8
1438S	1/4	3/8	7/8	1 3/8	11/32	1 3/8
38S	3/8	3/8	1	1 5/8	1/2	1 1/2
50S	1/2	1/2	1 1/4	1 7/8	9/16	1 7/8
75S	3/4	3/4	1 1/2	2 1/4	5/8	2 1/4

HexKey Extension Elbows



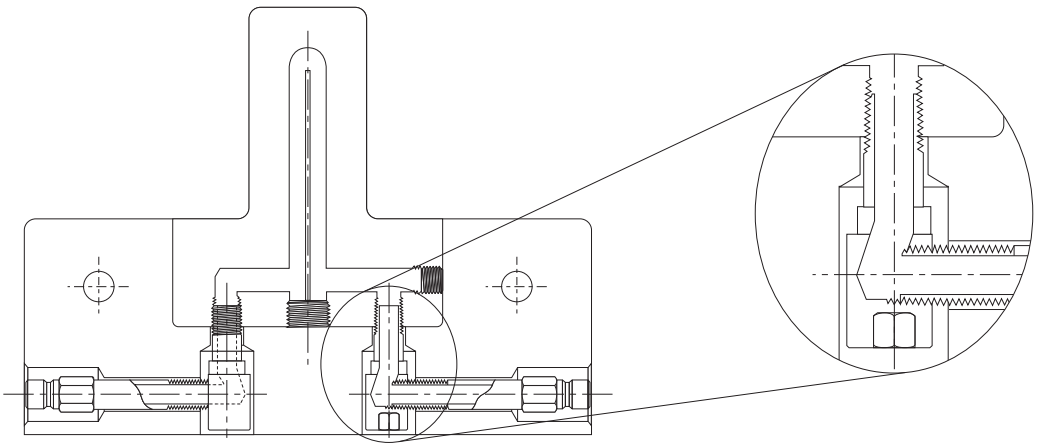
HexKey Extension Elbows are round, and install with an Allen wrench. Wrench clearance ideal for use inside the mold, or anywhere space is limited.

- Angular flow path allows connecting pipe fittings to be torqued tight without choking off flow
- Accurate length adjustments are easy with the patented custom mold thread system

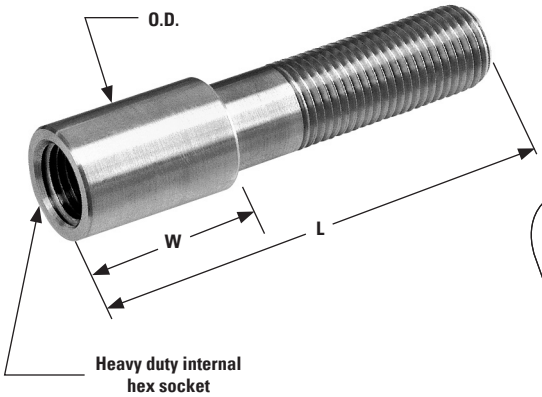


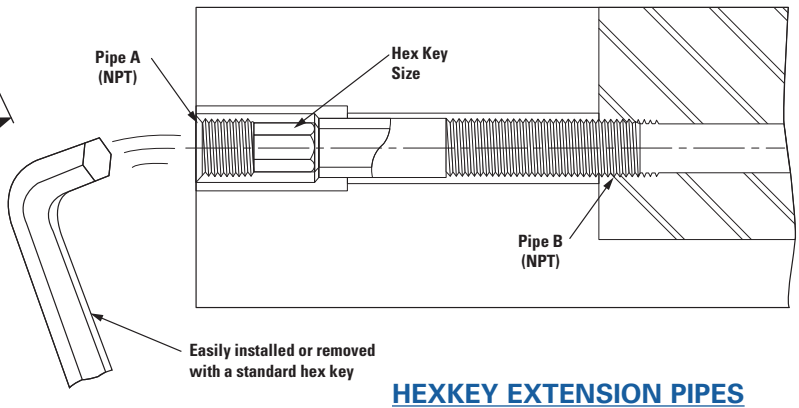
HEXKEY EXTENSION ELBOWS

Part Number Overall Length "L"								Pipe Size A	Pipe Size B	E	O.D.	Min. Clearance Dia.	Hex Key Size
2½"	4"	5½"	7"	8½"	10"	11½"	13"						
EKL16-212	EKL16-4	EKL16-512	EKL16-7	EKL16-812	EKL16-10	EKL16-1112	EKL16-13	1/16	1/16	.531	.552	9/16	1/4
EKL18-212	EKL18-4	EKL18-512	EKL18-7	EKL18-812	EKL18-10	EKL18-1112	EKL18-13	1/8	1/8	.580	.615	5/8	5/16
EKL14-212	EKL14-4	EKL14-512	EKL14-7	EKL14-812	EKL14-10	EKL14-1112	EKL14-13	1/4	1/4	.660	.860	7/8	3/8
EKL38-212	EKL38-4	EKL38-512	EKL38-7	EKL38-812	EKL38-10	EKL38-1112	EKL38-13	3/8	3/8	.780	.985	1	1/2
EKL50-212	EKL50-4	EKL50-512	EKL50-7	EKL50-812	EKL50-10	EKL50-1112	EKL50-13	1/2	1/2	.940	1.235	1/14	1/2



HexKey Extension Pipes





HEXKEY EXTENSION PIPES

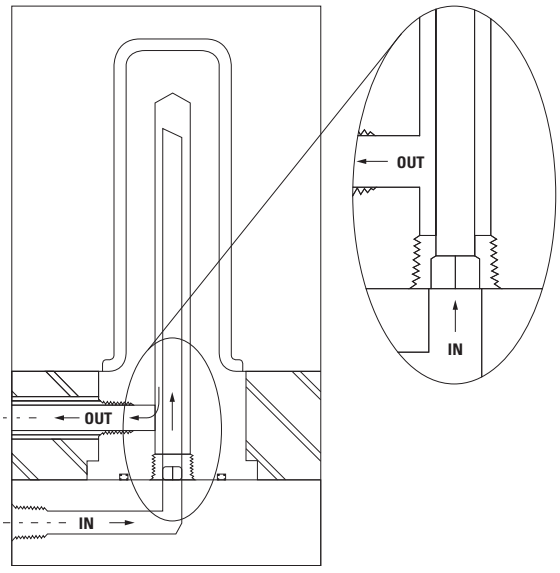
- **HexKey Extension Pipes** are available in a wide variety of special lengths and threads
- Accurate length adjustments are easy with the custom mold adjustable thread system

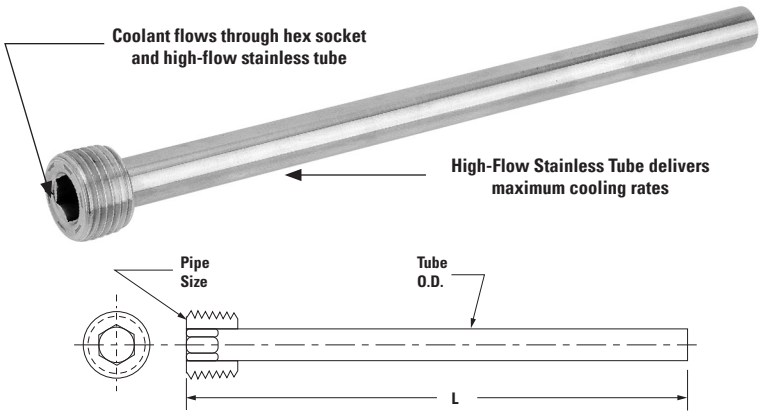
Part Number Overall Length "L" 2½"	4"	5½"	7"	8½"	Pipe Size A	Pipe Size B	W	O.D.	Hex Key Size
EP18-212	EP18-4	EP18-512	EP18-7	EP18-812	⅛	⅛	¾	½	¼
EP14-212	EP14-4	EP14-512	EP14-7	EP14-812	¼	¼	1	11⁄16	⅜
EP38-212	EP38-4	EP38-512	EP38-7	EP38-812	⅜	⅜	1⁄14	13⁄16	½
EP50-212	EP50-4	EP50-512	EP50-7	EP50-812	½	½	1½	1	9⁄16

Piston Tubes

E

- Precision brazed assembly provides high strength and reliable performance
- Flow-thru pipe plug available in brass, steel or stainless steel





PISTON TUBES

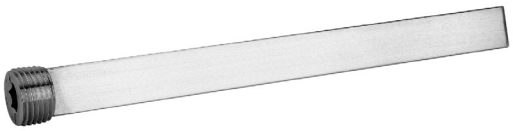
Part Number Overall Length "L" 12"	24"	36"	48"	Pipe Size (NPT)	Tube O.D.	Tube I.D.
PT16-12	PT16-24	PT16-36	PT16-48	1⁄16	.125	.109
PT18-12	PT18-24	PT18-36	PT18-48	⅛	.187	.167
PT14-12	PT14-24	PT14-36	PT14-48	¼	.250	.230
PT38-12	PT38-24	PT38-36	PT38-48	⅜	.375	.345
PT12-12	PT12-24	PT12-36	PT12-48	½	.375	.345
PT34-12	PT34-24	PT34-36	PT34-48	¾	.437	.407

Piston Tubes

Part Number	Description
PT12-375-18	PISTON TUBE 1/2" NPT 0.365 OD 0.340 ID 18" OAL
PT12-437-18	PISTON TUBE 1/2" NPT 0.427 OD 0.397 ID 18" OAL
PT14-312-48	PISTON TUBE 1/4" NPT 0.187 OD 0.167 ID 48" OAL
PT16-072-12	PISTON TUBE 1/16 NPT 0.072 OD 0.060 ID 12
PT16-072-18	PISTON TUBE 1/16 NPT 0.072 OD 0.060 ID 18
PT38-437-18	PISTON TUBE 3/8" NPT 0.427 OD 0.397 ID 18" OAL
PT12-375-18	PISTON TUBE 1/2" NPT 0.365 OD 0.340 ID 18" OAL
PT12-437-12	PISTON TUBE 1/2" NPT 0.427 OD 0.397 ID 12" OAL
PT12-437-12	PISTON TUBE 1/2" NPT 0.427OD 0.397 ID 12" OAL
PT12-437-24	PISTON TUBE 1/2" NPT 0.427 OD 0.397 ID 24" OAL
PT12-437-36	PISTON TUBE 1/2" NPT 0.427 OD 0.397 ID 36" OAL
PT12-437-48	PISTON TUBE 1/2" NPT 0.427 OD 0.397 ID 48" OAL
PT12-500-12	PISTON TUBE 1/2" NPT 0.500 OD 0.444 ID 12" OAL
PT12-500-18	PISTON TUBE 1/2" NPT 0.500 OD 0.444 ID 18" OAL
PT12-500-24	PISTON TUBE 1/2" NPT 0.500 OD 0.444 ID 24" OAL
PT12-500-36	PISTON TUBE 1/2" NPT 0.500 OD 0.444 ID 36" OAL
PT12-500-48	PISTON TUBE 1/2" NPT 0.500 OD 0.444 ID 48" OAL
PT14-187-12	PISTON TUBE 1/4" NPT 0.187 OD 0.167 ID 12" OAL
PT14-187-18	PISTON TUBE 1/4" NPT 0.187 OD 0.167 ID 18" OAL
PT14-187-24	PISTON TUBE 1/4" NPT 0.187 OD 0.167 ID 24" OAL
PT14-187-36	PISTON TUBE 1/4" NPT 0.187 OD 0.167 ID 36" OAL
PT14-187-48	PISTON TUBE 1/4" NPT 0.187 OD 0.167 ID 48" OAL
PT14-250-18	PISTON TUBE 1/4" NPT 0.250 OD 0.230 ID 18" OAL
PT14-312-12	PISTON TUBE 1/4" NPT 0.312 OD 0.288 ID 12" OAL
PT14-312-18	PISTON TUBE 1/4" NPT 0.187 OD 0.167 ID 18" OAL
PT14-312-24	PISTON TUBE 1/4" NPT 0.312 OD 0.288 ID 24" OAL
PT14-312-36	PISTON TUBE 1/4" NPT 0.312 OD 0.288 ID 36" OAL
PT16-072-24	PISTON TUBE 1/16 NPT 0.072 OD 0.060 ID 24
PT16-072-36	PISTON TUBE 1/16 NPT 0.072 OD 0.060 ID 36
PT16-072-48	PISTON TUBE 1/16 NPT 0.072 OD 0.060 ID 48
PT16-093-12	PISTON TUBE 1/16 NPT 0.090 OD 0.076 ID 12
PT16-093-18	PISTON TUBE 1/16 NPT 0.090 OD 0.076 ID 18
PT16-093-24	PISTON TUBE 1/16 NPT 0.090 OD 0.076 ID 24
PT16-093-36	PISTON TUBE 1/16 NPT 0.090 OD 0.076 ID 36
PT16-093-48	PISTON TUBE 1/16 NPT 0.090 OD 0.076 ID 48
PT16-109-12	PISTON TUBE 1/16 NPT 0.109 OD 0.095 ID 12
PT16-109-18	PISTON TUBE 1/16 NPT 0.109 OD 0.095 ID 18
PT16-109-24	PISTON TUBE 1/16 NPT 0.109 OD 0.095 ID 24

Part Number	Description
PT16-109-36	PISTON TUBE 1/16 NPT 0.109 OD 0.095 ID 36
PT16-109-48	PISTON TUBE 1/16 NPT 0.109 OD 0.095 ID 48
PT16-125-18	PISTON TUBE 1/16 NPT 0.125 OD 0.109 ID 18
PT16-187-12	PISTON TUBE 1/16 NPT 0.187 OD 0.167 ID 12
PT16-187-18	PISTON TUBE 1/16 NPT 0.187 OD 0.167 ID 18
PT16-187-24	PISTON TUBE 1/16 NPT 0.187 OD 0.167 ID 24
PT16-187-36	PISTON TUBE 1/16 NPT 0.187 OD 0.167 ID 36
PT16-187-48	PISTON TUBE 1/16 NPT 0.187 OD 0.167 ID 48
PT18-125-12	PISTON TUBE 1/8" NPT 0.125 OD 0.109 ID 12" OAL
PT18-125-18	PISTON TUBE 1/8" NPT 0.125 OD 0.109 ID 18" OAL
PT18-125-24	PISTON TUBE 1/8" NPT 0.125 OD 0.109 ID 24" OAL
PT18-125-36	PISTON TUBE 1/8" NPT 0.125 OD 0.109 ID 36" OAL
PT18-125-48	PISTON TUBE 1/8" NPT 0.125 OD 0.109 ID 48" OAL
PT18-187-18	PISTON TUBE 1/8" NPT 0.187 OD 0.167 ID 18" OAL
PT18-250-12	PISTON TUBE 1/8" NPT 0.250 OD 0.230 ID 12" OAL
PT18-250-18	PISTON TUBE 1/8" NPT 0.250 OD 0.230 ID 18" OAL
PT18-250-24	PISTON TUBE 1/8" NPT 0.250 OD 0.230 ID 24" OAL
PT18-250-36	PISTON TUBE 1/8" NPT 0.250 OD 0.230 ID 36" OAL
PT18-250-48	PISTON TUBE 1/8" NPT 0.250 OD 0.230 ID 48" OAL
PT34-437-18	PISTON TUBE 3/4" NPT 0.427 OD 0.397 ID 18" OAL
PT34-500-12	PISTON TUBE 3/4" NPT 0.500 OD 0.444 ID 12" OAL
PT34-500-18	PISTON TUBE 3/4" NPT 0.500 OD 0.444 ID 18" OAL
PT34-500-24	PISTON TUBE 3/4" NPT 0.500 OD 0.444 ID 24" OAL
PT34-500-36	PISTON TUBE 3/4" NPT 0.500 OD 0.444 ID 36" OAL
PT34-500-48	PISTON TUBE 3/4" NPT 0.500 OD 0.444 ID 48" OAL
PT34-625-12	PISTON TUBE 3/4" NPT 0.625 OD 0.569 ID 12" OAL
PT34-625-18	PISTON TUBE 3/4" NPT 0.625 OD 0.569 ID 18" OAL
PT34-625-24	PISTON TUBE 3/4" NPT 0.625 OD 0.569 ID 24" OAL
PT34-625-36	PISTON TUBE 3/4" NPT 0.625 OD 0.569 ID 36" OAL
PT34-625-48	PISTON TUBE 3/4" NPT 0.625 OD 0.569 ID 48" OAL
PT38-312-12	PISTON TUBE 3/8" NPT 0.312 OD 0.288 ID 12" OAL
PT38-312-18	PISTON TUBE 3/8" NPT 0.312 OD 0.288 ID 18" OAL
PT38-312-24	PISTON TUBE 3/8" NPT 0.312 OD 0.288 ID 24" OAL
PT38-312-36	PISTON TUBE 3/8" NPT 0.312 OD 0.288 ID 36" OAL
PT38-312-48	PISTON TUBE 3/8" NPT 0.312 OD 0.288 ID 48" OAL
PT38-375-18	PISTON TUBE 3/8" NPT 0.365 OD 0.340 ID 18" OAL
PT38-437-12	PISTON TUBE 3/8" NPT 0.427 OD 0.397 ID 12" OAL
PT38-437-24	PISTON TUBE 3/8" NPT 0.427 OD 0.397 ID 24" OAL
PT38-437-36	PISTON TUBE 3/8" NPT 0.427 OD 0.397 ID 36" OAL
PT38-437-48	PISTON TUBE 3/8" NPT 0.427 OD 0.397 ID 48" OAL

Straight Blade Plug Baffles

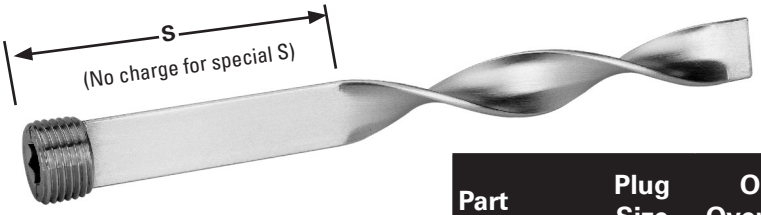


- Flush-seal type (7/8 taper) brass pipe plugs standard; alloy, stainless, and oversize (3/4 taper) plugs available
- Precision soldered to exacting tolerances to closely fit the cooling channel
- Same day shipment on custom length baffles
- Custom stepped width blades, and plug size combinations quoted on request
- 3/4″ NPT brass plug baffles for use with 29/32″ tap drill are available from stock

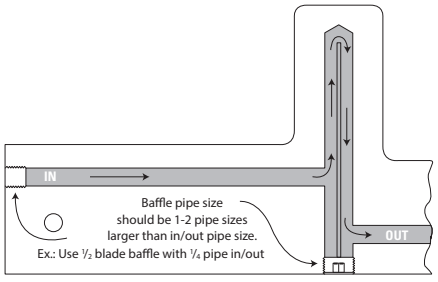
STRAIGHT BLADE PLUG BAFFLES

Part Number	Plug Size (NPT)	Overall Length	Blade Width	Drill Dia.	Blade Thick-ness
SB16x4	1/16	4″	1/4	1/4	.050
SB16x8	1/16	8″	1/4	1/4	.050
SB16x12	1/16	12	1/4	1/4	.050
SB18x4	1/8	4″	5/16	5/16	.050
SB18x8	1/8	8″	5/16	5/16	.050
SB18x12	1/8	12	5/16	5/16	.050
SB14x5	1/4	5″	7/16	7/16	.080
SB14x10	1/4	10″	7/16	7/16	.080
SB14x15	1/4	15	7/16	7/16	.080
SB38x6	3/8	6″	9/16	9/16	.090
SB38x12	3/8	12″	9/16	9/16	.090
SB38x18	3/8	18	9/16	9/16	.090
SB12x8	1/2	8″	11/16	11/16	.090
SB12x16	1/2	16″	11/16	11/16	.090
SB34x12	3/4	12″	15/16	15/16	.090
SB34x20	3/4	20″	15/16	15/16	.090
SB1x16	1	16″	1 1/8	1 1/8	.105
SB1x24	1	24″	1 1/8	1 1/8	.105

Turbo Blade Plug Baffles



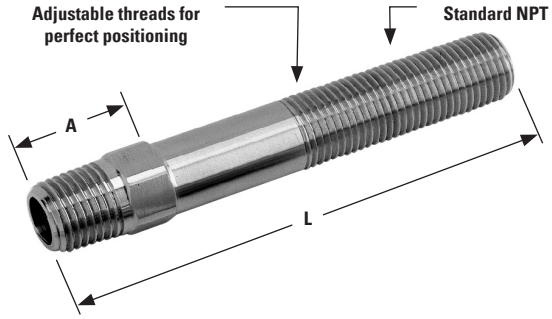
- Spiral provides turbulent cooling action and keeps blade centered in waterline for maximum flow rates

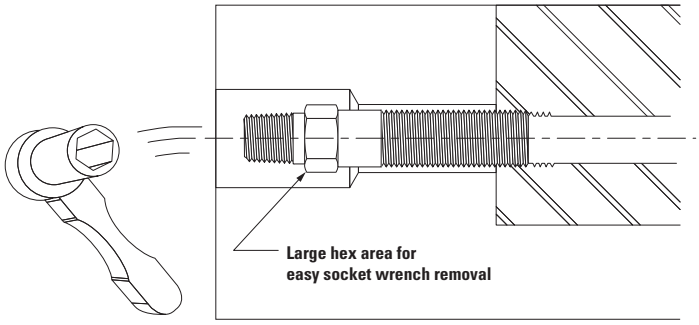


TURBO BLADE PLUG BAFFLES

Part Number	Plug Size (NPT)	O Overall Length	Blade S Straight Length	Width (–.005) (–.015)	Drill Dia.	Blade Thick-ness
TB16x4	1/16	4″	2″	1/4	1/4	.050
TB16x8	1/16	8″	4″	1/4	1/4	.050
TB16x12	1/16	12	6	1/4	1/4	.050
TB18x4	1/8	4″	2″	5/16	5/16	.050
TB18x8	1/8	8″	4″	5/16	5/16	.050
TB18x12	1/8	12	6	5/16	5/16	.050
TB14x5	1/4	5″	2″	7/16	7/16	.080
TB14x10	1/4	10″	4″	7/16	7/16	.080
TB14x15	1/4	15	6	7/16	7/16	.080
TB38x6	3/8	6″	2″	9/16	9/16	.090
TB38x12	3/8	12″	4″	9/16	9/16	.090
TB38x18	3/8	18	6	9/16	9/16	.090
TB12x8	1/2	8″	3″	11/16	11/16	.090
TB12x16	1/2	16″	5″	11/16	11/16	.090
TB34x12	3/4	12″	4″	15/16	15/16	.090
TB34x20	3/4	20″	6″	15/16	15/16	.090
TB1x16	1	16″	5″	1 1/8	1 1/8	.105
TB1x24	1	24″	8″	1 1/8	1 1/8	.105

Adjustable Hex Nipple





- Especially useful when installing Cascade Heads, Hex Elbows, etc. inside molds and slides
- Longer or special exact lengths available
- Also available in special thread combinations (including BSP)

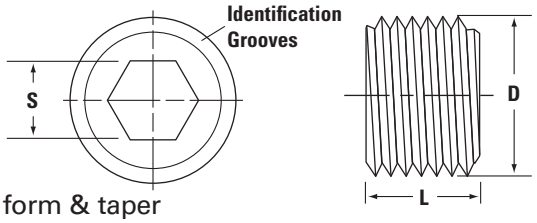
ADJUSTABLE HEX NIPPLE

Part Number								Pipe Size (NPT)	A	Hex Size
Overall Length "L"										
2½"	4"	5½"	7"	8½"	10"	11½"	13"			
APN16-212	APN16-4	APN16-512	APN16-7	APN16-812	APN16-10	APN16-1112	APN16-13	1/16	11/16	3/8
APN18-212	APN18-4	APN18-512	APN18-7	APN18-812	APN18-10	APN18-1112	APN18-13	1/8	3/4	7/16
APN14-212	APN14-4	APN14-512	APN14-7	APN14-812	APN14-10	APN14-1112	APN14-13	1/4	7/8	9/16
APN38-212	APN38-4	APN38-512	APN38-7	APN38-812	APN38-10	APN38-1112	APN38-13	3/8	1	11/16
APN12-212	APN12-4	APN12-512	APN12-7	APN12-812	APN12-10	APN12-1112	APN12-13	1/2	1 3/8	7/8

E

Pressure Plugs-Threaded

Threaded



- 7/8 taper for flush installation – closely controlled thread size, form & taper
- High-pressure seal is developed through a deliberate difference in taper between plug & tapped hole
- Steel is high-grade alloy type heat treated to Rc 35-40

Brass 7/8 Taper						Steel 7/8 Taper	
Size	Part Number	S-Key Size	Tap Drill	L-Body Length	Threads Per Inch	Size	Part Number
1/16″	BP1	5/32	15/64	.250	27	1/16″	SP1M
1/8″	BP2	3/16	21/64	.250	27	1/8″	SP2
1/4″	BP4	1/4	27/64	.406	18	1/4″	SP4
3/8″	BP6	5/16	9/16	.406	18	3/8″	SP6M
1/2″	BP8	3/8	11/16	.531	14	1/2″	SP8M
3/4″	BP12	9/16	57/64	.531	14	3/4″	SP12M
1″	BP16	5/8	1–1/8	.656	11–1/2	1″	SP16M
1–1/4″	BP20M	3/4	1–15/32	.656	11–1/2		
1–1/2″	BP24	1	1–25/32	.656	11–1/2		

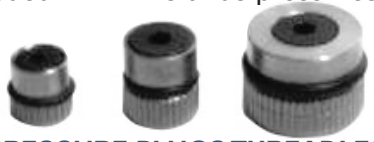
PRESSURE PLUGS THREADED

Pressure Plugs - Threadless

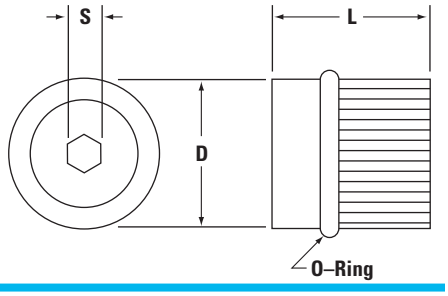
Brass threadless plugs have a time-saving expandable O-ring design. When the plug's socket head screw is tightened, the O-ring expands to provide a positive seal. No tapping necessary; easy installation and removal. Perfect solution for limited space situations.

- Seals rough and corroded holes
- No tapping needed
- Withstands pressures up to 72 PSI

Part Number	Hex Nominal Size	Drill Length L	Size S	Size D	O-Rings Pkg. Of 10
BTP2	1/8″	.50	5/64	11/32	BTO2
BTP2OS	1/8″+	.50	5/64	23/64	BTO2
BTP4	1/4″	.56	1/8	7/16	BTO4
BTP4OS	1/4″+	.56	1/8	29/64	BTO4
BTP6	3/8″	.62	1/8	9/16	BTO6
BTP6OS	3/8″+	.62	1/8	37/64	BTO6
BTP8	1/2″	.62	1/8	11/16	BTO8
BTP8OS	1/2″+	.62	1/8	45/64	BTO8



PRESSURE PLUGS THREADLESS



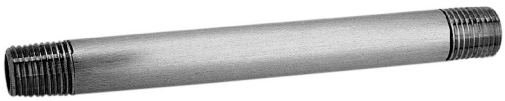
9 Pc. Folding Hex Key Set

Great Neck
Quality Hand Tools Since 1919

- Chrome vanadium steel
- Hardened and tempered for strength
- Plated handle
- Black oxide finish
- Sizes: 0.050″, 5/64″, 7/64″, 9/64″, 3/16″, 1/16″, 3/32″, 1/8″, 5/32″

Part Number HEK9C

BRASS PIPE NIPPLES



Brass Long Nipples	
Part Number	Pipe Size × Length
1/16	
BNL110	1/16 × 1
BNL115	1/16 1½
BNL120	1/16 2
BNL125	1/16 2½
BNL130	1/16 3
BNL140	1/16 4
BNL160	1/16 6
BNL180	1/16 8
BNL1100	1/16 10
BNL1200	1/16 12
1/8	
BNL215	1/8 × 1½
BNL220	1/8 2
BNL225	1/8 2½
BNL230	1/8 3
BNL235	1/8 3½
BNL240	1/8 4
BNL250	1/8 5
BNL260	1/8 6
BNL280	1/8 8
BNL2100	1/8 10
BNL2120	1/8 12
1/4	
BNL415	1/4 1½
BNL420	1/4 2
BNL425	1/4 2½
BNL430	1/4 3
BNL435	1/4 3½
BNL440	1/4 4
BNL445	1/4 4½
BNL450	1/4 5
BNL460	1/4 6
BNL480	1/4 8
BNL4100	1/4 10
BNL4120	1/4 12

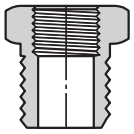
Brass Long Nipples	
Part Number	NPT Size
3/8	
BNL615	3/8 × 1½
BNL620	3/8 × 2
BNL625	3/8 × 2½
BNL630	3/8 × 3
BNL635	3/8 × 3½
BNL640	3/8 × 4
BNL660	3/8 × 6
BNL680	3/8 × 8
1/2	
BNL815	1/2 × 1½
BNL820	1/2 × 2
BNL825	1/2 × 2½
BNL830	1/2 × 3
BNL835	1/2 × 3½
BNL840	1/2 × 4
BNL860	1/2 × 6
BNL880	1/2 × 8
3/4	
BNL1215	3/4 × 1½
BNL1220	3/4 × 2
BNL1225	3/4 × 2½
BNL1230	3/4 × 3
BNL1235	3/4 × 3½
1	
BNL1620	1 × 2
BNL1625	1 × 2½
BNL1630	1 x 3
BNL1635	1 × 3½

Brass Close Nipples	
Part Number	NPT Size
BNS2	1/8″
BNS4	1/4″
BNS6	3/8″
BNS8	1/2″
BNS12	3/4″
BNS16	1″
BNS20	1¼″
BNS24	1½″

E

Brass Pipe Adapters

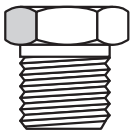
BRASS PIPE NIPPLES



Brass Pipe Bushings

Part Number	NPT Sizes
BPB2-1	1/8 × 1/16
BPB4-2	1/4 × 1/8
BPB6-2	3/8 × 1/8
BPB6-4	3/8 × 1/4
BPB8-2	1/2 × 1/8
BPB8-4	1/2 × 1/4
BPB8-6	1/2 × 3/8
BPB12-2	3/4 × 1/8
BPB12-4	3/4 × 1/4
BPB12-6	3/4 × 3/8
BPB12-8	3/4 × 1/2
BPB16-4	1 × 1/4
BPB16-6	1 × 3/8
BPB16-8	1 × 1/2
BPB16-12	1 × 3/4
BPB20-8*	1 1/4 × 1/2
BPB20-12*	1 1/4 × 3/4
BPB20-16*	1 1/4 × 1
BPB24-8*	1 1/2 × 1/2
BPB24-12*	1 1/2 × 3/4
BPB24-16*	1 1/2 × 1
BPB24-20*	1 1/2 × 1 1/4

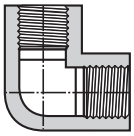
*Bronze



Brass Street Elbow 90°

Part Number	Size F × M
BE9S2-2	1/8 × 1/16
BE9S2-4	1/8 × 1/4
BE9S4-2	1/4 × 1/8
BE9S4-4	1/4 × 1/4
BE9S4-6	1/4 × 3/8
BE9S6-4	3/8 × 1/4
BE9S6-6	3/8 × 3/8
BE9S6-8	3/8 × 1/2
BE9S8-6	1/2 × 3/8
BE9S8-8*	1/2 × 1/2
BE9S12-12*	3/4 × 3/4

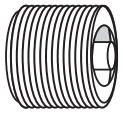
*Bronze



Brass Elbow 90°

Part Number	NPT Size
BE9-2-2	1/8
BE9-4-4	1/4
BE9-6-6*	3/8
BE9-8-8*	1/2

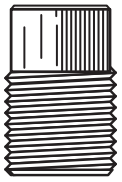
*Bronze



Brass Allen Plug

Part Number	Size
BAP1	1/16
BAP2	1/8
BAP4	1/4
BAP6	3/8
BAP8	1/2
BAP12	3/4

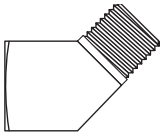
Please see Pressure Plugs for 7/8 taper mold plugs



Brass Square Plugs

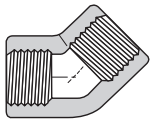
Part Number	NPT Size
BSP2	1/8
BSP4	1/4
BSP6	3/8
BSP8	1/2
BSP12	3/4
BSP16*	1
BSP20*	1 1/4
BSP24*	1 1/2

*Bronze



Brass Street Elbow 45°

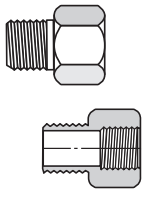
Part Number	NPT Size
BE4S2-2	1/8
BE4S4-4	1/4
BE4S6-6	3/8
BE4S8-8	1/2



Brass Elbow 45°

Part Number	NPT Size
BE4-2	1/8
BE4-4	1/4
BE4-6*	3/8
BE4-8*	1/2

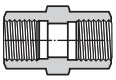
*Bronze

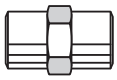


Brass Female × Male

Part Number	Size F × M
BMF2-2	1/8 × 1/8
BMF4-2	1/4 × 1/8
BMF4-4	1/4 × 1/4
BMF6-2	3/8 × 1/8
BMF6-4	3/8 × 1/4
BMF6-6	3/8 × 3/8
BMF8-4	1/2 × 1/4
BMF8-6	1/2 × 3/8
BMF8-8	1/2 × 1/2

Brass Pipe Adapters

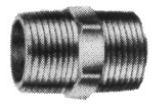




Brass Pipe Coupling

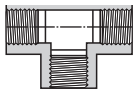
Part Number	Size
BPC2-2	1/8 × 1/8
BPC4-2	1/4 × 1/8
BPC4-4	1/4 × 1/4
BPC6-2	3/8 × 1/8
BPC6-4	3/8 × 1/4
BPC6-6	3/8 × 3/8
BPC8-4	1/2 × 1/4
BPC8-6	1/2 × 3/8
BPC8-8	1/2 × 1/2
BPC12-8	3/4 × 1/2
BPC12-12	3/4 × 3/4

PIPE ADAPTERS



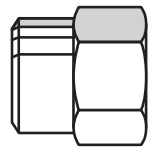
Brass Hex Nipple

Part Number	Size
BHN2-1	1/8 × 1/16
BHN2-2	1/8 × 1/8
BHN4-2	1/4 × 1/8
BHN4-4	1/4 × 1/4
BHN6-2	3/8 × 1/8
BHN6-4	3/8 × 1/4
BHN6-6	3/8 × 3/8
BHN8-4	1/2 × 1/4
BHN8-6	1/2 × 3/8
BHN8-8	1/2 × 1/2
BHN12-12	3/4 × 3/4



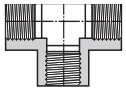
Brass Pipe Tee

Part Number	Size
BPT2-2	1/8 × 1/8
BPT4-4	1/4 × 1/4
BPT6-6	3/8 × 3/8
BPT8-8	1/2 × 1/2



Brass Pipe Cap

Part Number	Size
BPCA2-2	1/8 × 1/8
BPCA4-4	1/4 × 1/4
BPCA6-6	3/8 × 3/8
BPCA8-8	1/2 × 1/2



Brass Branch Tee

Part Number	Size
BBT2-2	1/8 × 1/8
BBT4-4	1/4 × 1/4
BBT6-6	3/8 × 3/8

E

Thread Sealing Tape

- Permanent non-flammable seal
- Remains plastic permanently
- –450°F to +500°F
- Perfect for water connections, hydraulics, air, gas, petroleum
- The finest quality PTFE tape available
- NEVER use thinner, cheaper substitutes

THREAD SEALING TAPE

Part Number	Length	Thickness	Width
TT100	260″(21.6′)	0.0035	1/2″
TT200	520″(43.3′)	0.0035	1/2″
TT300	520″(43.3′)	0.0035	3/4″

Standard Hose Barbs

Male Hose Barbs

Part Number	Hose I. D.	Pipe Thread
205-4-2	1/4	1/8
205-4-4	1/4	1/4
205-4-6	1/4	3/8
205-5-2	5/16	1/8
205-5-4	5/16	1/4
205-6-2	3/8	1/8
205-6-4	3/8	1/4
205-6-6	3/8	3/8
205-6-8	3/8	1/2
205-8-4	1/2	1/4
205-8-6	1/2	3/8
205-8-8	1/2	1/2
205-8-12	1/2	3/4
205-10-8	5/8	1/2
205-10-12	5/8	3/4
205-12-8	3/4	1/2
205-12-12	3/4	3/4
205-16-12	1	3/4
205-16-16	1	1
205-20-16	1 1/4	1

Male Swivel Hose Barbs

Part Number	Hose I. D.	Pipe Thread
215-4-4	1/4	1/4
215-6-4	3/8	1/4
215-6-6	3/8	3/8
215-8-8	1/2	1/2
215-12-12	3/4	3/4

Hose Mender Barbs

Part Number	Hose I. D.
250-4-4	1/4
250-5-5	5/16
250-6-6	3/8
250-8-8	1/2
250-10-10	5/8
250-12-12	3/4

Male Hose Barbs - 90°

Part Number	Hose I. D.	Pipe Thread
209-4-2	1/4	1/8
209-4-4	1/4	1/4
209-6-4	3/8	1/4
209-6-6	3/8	3/8
209-8-6	1/2	3/8
209-8-8	1/2	1/2

Female 37° Swivel Hose Barbs

Part Number	Hose I. D.	Flare Size
237-4-4	1/4	1/4
237-4-6	1/4	3/8
237-6-6	3/8	3/8
237-6-8	3/8	1/2
237-8-8	1/2	1/2
237-8-10	1/2	5/8

Female 45° Swivel Hose Barbs

Part Number	Hose I. D.	Flare Size
245-4-4	1/4	1/4
245-4-6	1/4	3/8
245-6-6	3/8	3/8
245-6-8	3/8	1/2
245-8-8	1/2	1/2
245-8-10	1/2	5/8

Female Ball Seat Hose Barbs

Part Number	Hose I. D.	Pipe Thread
220-4-4	1/4	1/4
220-6-4	3/8	1/4
220-6-6	3/8	3/8

Rigid Female Hose Barbs

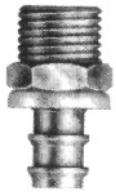
Part Number	Hose I. D.	Pipe Thread
210-4-2	1/4	1/8
210-4-4	1/4	1/4
210-6-4	3/8	1/4
210-6-6	3/8	3/8
210-8-4	1/2	1/4
210-8-6	1/2	3/8
210-8-8	1/2	1/2

Steel Constructed

Male King Nipples

Part Number	Hose I. D.	Pipe Thread
206-8-8	1/2	1/2
206-12-12	3/4	3/4
206-12-16	3/4	1
206-16-16	1	1
206-16-20	1	1 1/4
206-20-20	1 1/4	1 1/4
206-24-24	1 1/2	1 1/2
206-32-32	2	2

BRASS PUSH ON HOSE BARBS



Male Push-On

Part Number	Hose I. D.	Pipe Thread
305-4-2	1/4	1/8
305-4-4	1/4	1/4
305-4-6	1/4	3/8
305-6-2	3/8	1/8
305-6-4	3/8	1/4
305-6-6	3/8	3/8
305-6-8	3/8	1/2
305-8-4	1/2	1/4
305-8-6	1/2	3/8
305-8-8	1/2	1/2
305-10-8	5/8	1/2
305-10-12	5/8	3/4
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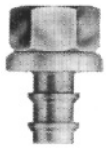
305-12-12	3/4	3/4



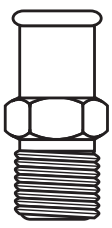
Rigid Female Pipe Push-On

Part Number	Hose I. D.	Pipe Thread
310-4-2	1/4	1/8
310-4-4	1/4	1/4
310-6-4	3/8	1/4
310-6-6	3/8	3/8
310-8-6	1/2	3/8
310-8-8	1/2	1/2

Male Pipe Swivel Push-On

Part Number	Hose I. D.	Pipe Thread
315-4-4	1/4	1/4
315-6-4	3/8	1/4
315-6-6	3/8	3/8
315-8-8	1/2	1/2
315-12-12	3/4	3/4

Use Genuine Oetiker Hose Clamps with these Beaded Hose Barbs!
P. 484



Brass Beaded Hose Barbs

Part Number	Hose I. D.	Pipe Thread	Part Number	Hose I. D.	Pipe Thread
208-4-2	1/4	1/8	208-8-6	1/2	3/8
208-4-4	1/4	1/4	208-8-8	1/2	1/2
208-6-2	3/8	1/8	208-10-8	5/8	1/2
208-6-4	3/8	1/4	208-12-12	3/4	3/4
208-6-6	3/8	3/8			

Female 37° Swivel Push-On

Part Number	Hose I. D.	Flare Size
337-4-4	1/4	1/4
337-4-6	1/4	3/8
337-6-6	3/8	3/8
337-6-8	3/8	1/2
337-8-8	1/2	1/2
337-8-10	1/2	5/8
337-10-10	5/8	5/8
337-12-12	3/4	3/4

Female 45° Swivel Push-On

Part Number	Hose I. D.	Flare Size
345-4-4	1/4	1/4
345-4-6	1/4	3/8
345-6-6	3/8	3/8
345-6-8	3/8	1/2
345-8-6	1/2	3/8
345-8-8	1/2	1/2
345-8-10	1/2	5/8
345-10-8	5/8	1/2
345-10-10	5/8	5/8
345-12-12	3/4	3/4

Female Pipe Swivel

Part Number	Hose I. D.	Flare Size
325-4-2	1/4	1/8
325-4-4	1/4	1/4
325-6-4	3/8	1/4
325-6-6	3/8	3/8
325-8-8	1/2	1/2

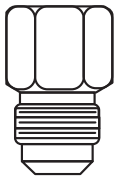
Hose Mender Push-On

Part Number	Hose I. D.
350-4-4	1/4
350-6-6	3/8
350-8-8	1/2
350-10-10	5/8
350-12-12	3/4

E

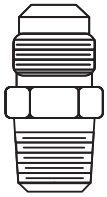
45° Brass Pipe Adapters

PIPE ADAPTERS (ALL)



Male Flare × Female Pipe

Part Number	Flare Size	Pipe Thread
346-4-2	1/4	1/8
346-4-4	1/4	1/4
346-6-2	3/8	1/8
346-6-4	3/8	1/4
346-6-6	3/8	3/8
346-8-6	1/2	3/8
346-8-8	1/2	1/2

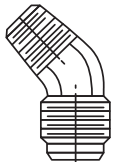


Flare × Pipe

Part Number	Flare Size	Pipe Thread
348-2-2	1/8	1/8
348-4-2	1/4	1/8
348-4-4	1/4	1/4
348-4-6	1/4	3/8
348-6-2	3/8	1/8
348-6-4	3/8	1/4
348-6-6	3/8	3/8
348-6-8	3/8	1/2
348-8-6	1/2	3/8
348-8-8	1/2	1/2
348-10-8	5/8	1/2
348-10-12	5/8	3/4
348-12-12	3/4	3/4

Flare × Pipe – 90°

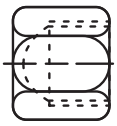
Part Number	Flare Size	Pipe Thread
349-4-2	1/4	1/8
349-4-4	1/4	1/4
349-6-2	3/8	1/8
349-6-4	3/8	1/4
349-6-6	3/8	3/8
349-8-6	1/2	3/8
349-8-8	1/2	1/2
349-10-8	5/8	1/2
349-12-12	3/4	3/4



Flare × Pipe – 45°

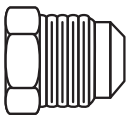
Part Number	Flare Size	Pipe Thread
347-4-2	1/4	1/8
347-4-4	1/4	1/4
347-6-4	3/8	1/4
347-6-6	3/8	3/8
347-8-6	1/2	3/8
347-8-8	1/2	1/2

37° Steel Pipe Adapters



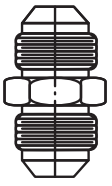
Cap Nut

Part Number	Das Size	Flare Size
820-4	1/4	7/16–20
820-6	3/8	9/16–18
820-8	1/2	3/4–16



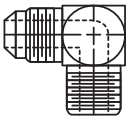
Plug

Part Number	Das Size	Flare Size
821-4	1/4	7/16–20
821-6	3/8	9/16–18
821-8	1/2	3/4–16



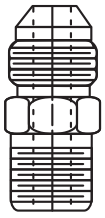
Union

Part Number	Das Size	Flare Size
824-4	1/4	7/16–20
824-6	3/8	9/16–18
824-8	1/2	3/4–16



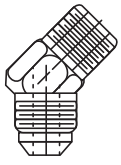
Flare × Pipe – 90°

Part Number	Flare Size	Pipe Thread
822-4-2	1/4	1/8
822-4-4	1/4	1/4
822-6-4	3/8	1/4
822-6-6	3/8	3/8



Flare × Pipe

Part Number	Flare Size	Pipe Thread
816-4-2	1/4	1/8
816-4-4	1/4	1/4
816-6-4	3/8	1/4
816-6-6	3/8	3/8
816-8-6	1/2	3/8
816-8-8	1/2	1/2
816-12-12	3/4	3/4

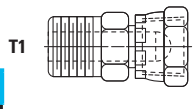


Flare × Pipe – 45°

Part Number	Flare Size	Pipe Thread
823-4-2	1/4	1/8
823-4-4	1/4	1/4
823-6-4	3/8	1/4
823-6-6	3/8	3/8
823-8-6	1/2	3/8
823-8-8	1/2	1/2
823-12-12	3/4	3/4

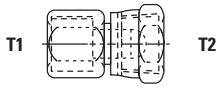
Part Number	Flare Size	Pipe Thread
822-8-6	1/2	3/8
822-8-8	1/2	1/2
822-10-8	5/8	1/2
822-12-12	3/4	3/4

HYDRAULIC ADAPTERS (ALL)



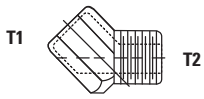
Male Pipe Adapter

Part Number	T1	T2
708-2-2	1/8″	1/8″
708-2-4	1/8″	1/4″
708-4-4	1/4″	1/4″
708-4-6	1/4″	3/8″
708-6-4	3/8″	1/4″
708-6-6	3/8″	3/8″
708-6-8	3/8″	1/2″
708-8-4	1/2″	1/4″
708-8-6	1/2″	3/8″
708-8-8	1/2″	1/2″
708-12-8	3/4″	1/2″
708-12-12	3/4″	3/4″
708-12-16	3/4″	1″
708-16-12	1″	3/4″
708-16-16	1″	1″



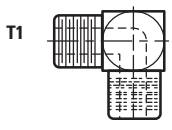
Female Pipe Adapter

Part Number	T1	T2
709-2-2	1/8″	1/8″
709-4-4	1/4″	1/4″
709-6-6	3/8″	3/8″
709-8-8	1/2″	1/2″
709-12-12	3/4″	3/4″
709-16-16	1″	1″



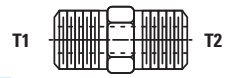
45° Street Elbow

Part Number	T1	T2
755-2-2	1/8″	1/8″
755-4-4	1/4″	1/4″
755-6-6	3/8″	3/8″
755-8-8	1/2″	1/2″



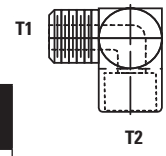
90° Male Pipe

Part Number	T1	T2
759-2-2	1/4″	1/8″
759-4-4	1/4″	1/4″
759-6-6	3/8″	3/8″
759-8-8	1/2″	1/2″



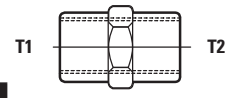
Male Pipe Coupling

Part Number	T1	T2
751-2-2	1/8″	1/8″
751-4-2	1/4″	1/8″
751-4-4	1/4″	1/4″
751-6-6	3/8″	3/8″
751-8-8	1/2″	1/2″
751-12-12	3/4″	3/4″



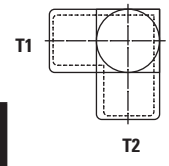
90° Street Elbow

Part Number	T1	T2
754-2-2	1/8″	1/8″
754-4-2	1/4″	1/8″
754-4-4	1/4″	1/4″
754-6-6	3/8″	3/8″
754-8-8	1/2″	1/2″



Female Union

Part Number	T1	T2
750-2-2	1/8″	1/8″
750-4-2	1/4″	1/8″
750-4-4	1/4″	1/4″
750-6-6	3/8″	3/8″
750-8-8	1/2″	1/2″



90° Female Pipe

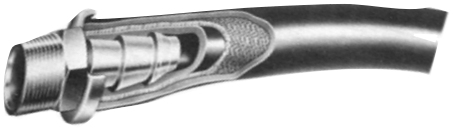
Part Number	T1	T2
756-2-2	1/8″	1/8″
756-4-4	1/4″	1/4″
756-6-6	3/8″	3/8″
756-8-8	1/2″	1/2″

E

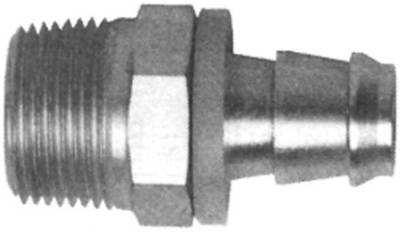
Push-Lok™ Hose Barbs

Parker®

The very best hose deserves the very best fittings! Parker Push-Lok Fittings are perfectly matched to Parker Push-Lok Hose to ensure a maximum service life. We recommend using only Parker Fittings with Parker Push-Lok Hose.

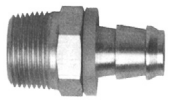


PUSH-LOK HOSE BARBS



Male Pipe Thread

Part Number	Hose I. D.	Pipe Thread
30182-2-4B	1/4″	1/8
30182-4-4B	1/4″	1/4
30182-4-6B	3/8″	1/4
30182-6-6B	3/8″	3/8
30182-8-6B	3/8″	1/2
30182-6-8B	1/2″	3/8
30182-8-8B	1/2″	1/2
30182-12-8B	1/2″	3/4
30182-8-10B	5/8″	1/2
30182-12-12B	3/4″	3/4

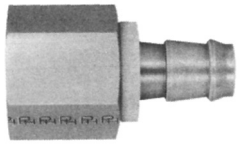


Male Pipe Swivel

Part Number	Hose I. D.	Pipe Thread
31382-4-4	1/4″	1/4
31382-6-6	3/8″	3/8
31382-8-8	1/2″	1/2

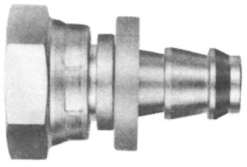
90° Female Swivel

Part Number	Hose I. D.	Pipe Thread	Fits Flare
33982-4-4	1/4″	7/16 – 20	37°/45°
33982-6-6	3/8″	9/16 – 18	37°
33982-8-8	1/2″	3/4 – 16	37°/45°



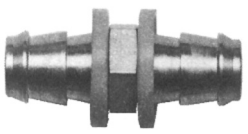
Female Pipe Swivel

Part Number	Hose I. D.	Pipe Thread
30282-4-4B	1/4″	1/4
30282-6-6B	3/8″	3/8
30282-8-8B	1/2″	1/2



Female Pipe Ridge

Part Number	Hose I. D.	Pipe Thread
37G82-4-4	1/4″	1/4
37G82-4-6	3/8″	1/4
37G82-6-6	3/8″	3/8
37G82-8-8	1/2″	1/2
37G82-8-10	5/8″	1/2
37G82-12-12	3/4″	3/4



Hose Menders

Part Number	Hose I. D.
38282-4-4B	1/4″
38282-6-6B	3/8″
38282-8-8B	1/2″

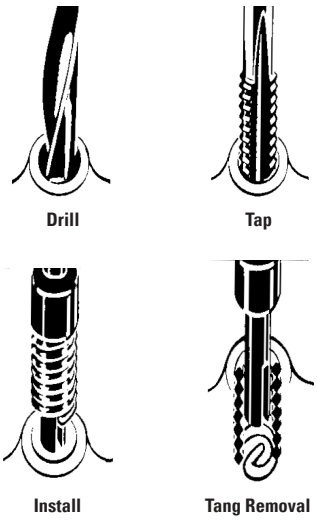
The insert system was devised as a simple method of repairing stripped or damaged threads in any metal or valuable parts. Inserts are also used in die castings and plastics where excessive stress on threads could cause damage or failure. Inserts are helical coils of diamond-shaped 18-8 stainless steel wire which meets or exceeds AMS-7245 specification. Inserts are sized to provide a precisely controlled interference fit in an oversize tapped hole. The tap used for this purpose is the same pitch as the original thread, but has a larger diameter. When the insert is installed, the hole is returned to its original size.

Because the insert provides an enlarged bearing area, the restored fastening is stronger than the original. It is also more durable, since the stainless steel thread is generally tougher than the original material. Inserts are corrosion resistant and their 22 micro-inch or better surface finish provides a smooth-running, wear-resistant fastening.

Inserts Only – UNC

Thread Size	Part Number	Length
¼ – 20	**RC03043**	.375
¼ – 20	**RC03044**	.500
⅜ – 16	**RC03063**	.563
⅜ – 16	**RC03064**	.750
½ – 13	**RC03083**	.750
½ – 13	**RC03084**	1.000
⅝ – 11	**RC03103**	.983
⅝ – 11	**RC03104**	1.250
¾ – 10	**RC03123**	1.125
¾ – 10	**RC03124**	1.500
1 – 8	**RC03163**	1.500
1 – 8	**RC03164**	2.000
1⅛ – 7	**RC03183**	2.500
1¼ – 7	**RC03203**	2.500
1⅜ – 6	**RC03223**	2.750
1½ – 6	**RC03243**	3.000

Simple Installation:



HELICAL THREAD INSERTS

CHRISLYNN HELICAL INSERTS PRECISION

- 18-8 stainless steel
- Corrosion resistant
- 22 micro-inch or better surface finish provides a smooth running, wear-resistant fastening

Repair Kits - UNC

Kit includes: Inserts, Tap, Tool and Case

Thread Size	Part Number	Inserts per Kit
4 – 40	**RC33540**	12
5 – 40	**RC33550**	12
6 – 32	**RC33560**	12
8 – 32	**RC33580**	12
10 – 24	**RC33600**	12
12 – 24	**RC33620**	12
¼ – 20	**RC33040**	12
5⁄16 – 18	**RC33050**	10
⅜ – 16	**RC33060**	10
7⁄16 – 14	**RC33070**	6
½ – 13	**RC33080**	6
9⁄16 – 12	**RC33090**	6
⅝ – 11	**RC33100**	6
¾ – 10	**RC33120**	4
⅞ – 9	**RC33140**	6
1 – 8	**RC33160**	6
1⅛ – 7	**RC33180**	5
1¼ – 7	**RC33200**	4
1⅜ – 6	**RC33220**	4
1½ – 6	**RC33240**	4

Inserts in kits are 1.5 times screw diameter in length.

Galvanized & Black Pipe Nipples

GALVANIZED & BLACK PIPE NIPPLES

Close Nipples			
Size	Close Length	Galvanized Part Number	Black Pipe Part Number
⅛″	¾″	GNS2	BLNS2
¼″	⅞″	GNS4	BLNS4
⅜″	1″	GNS6	BLNS6
½″	1⅛″	GNS8	BLNS8
¾″	1⅜″	GNS12	BLNS12
1″	1½″	GNS16	BLNS16
1¼″	1⅝″	GNS20	BLNS20
1½″	1¾″	GNS24	BLNS24
2″	2″	GNS32	BLNS32
⅛″ Pipe			
Close		GNS2	BLNS2
1½″		GNL215	BLNL215
2″		GNL220	BLNL220
2½″		GNL225	BLNL225
3″		GNL230	BLNL230
3½″		GNL235	BLNL235
4″		GNL240	BLNL240
4½″		GNL245	BLNL245
5″		GNL250	BLNL250
5½″		GNL255	BLNL255
6″		GNL260	BLNL260
7″		GNL270	BLNL270
8″		GNL280	BLNL280
9″		GNL290	BLNL290
10″		GNL2100	BLNL2100
12″		GNL2120	BLNL2120
¼″ Pipe			
Close		GNS4	BLNS4
1½″		GNL415	BLNL415
2″		GNL420	BLNL420
2½″		GNL425	BLNL425
3″		GNL430	BLNL430
3½″		GNL435	BLNL435
4″		GNL440	BLNL440
4½″		GNL445	BLNL445
5″		GNL450	BLNL450
5½″		GNL455	BLNL455
6″		GNL460	BLNL460
7″		GNL470	BLNL470
8″		GNL480	BLNL480
9″		GNL490	BLNL490
10″		GNL4100	BLNL4100
11″		GNL4110	BLNL4110
12″		GNL4120	BLNL4120
⅜″ Pipe			
Close		GNS6	BLNS6
1½″		GNL615	BLNL615
2″		GNL620	BLNL620
2½″		GNL625	BLNL625
3″		GNL630	BLNL630
3½″		GNL635	BLNL635
4″		GNL640	BLNL640
4½″		GNL645	BLNL645
5″		GNL650	BLNL650
5½″		GNL655	BLNL655
6″		GNL660	BLNL660
8″		GNL680	BLNL680

½″ Pipe		
Length	Galvanized Part Number	Black Pipe Part Number
Close	GNS8	BLNS8
1½″	GNL815	BLNL815
2″	GNL820	BLNL820
2½″	GNL825	BLNL825
3″	GNL830	BLNL830
3½″	GNL835	BLNL835
4″	GNL840	BLNL840
4½″	GNL845	BLNL845
5″	GNL850	BLNL850
5½″	GNL855	BLNL855
6″	GNL860	BLNL860
7″	GNL870	
12″	GNL8120	
¾″ Pipe		
Close	GNS12	BLNS12
1½″	GNL1215	BLNL1215
2″	GNL1220	BLNL1220
2½″	GNL1225	BLNL1225
3″	GNL1230	BLNL1230
3½″	GNL1235	BLNL1235
4″	GNL1240	BLNL1240
4½″	GNL1245	BLNL1245
5″	GNL1250	BLNL1250
5½″	GNL1255	BLNL1255
6″	GNL1260	BLNL1260
8″	GNL1280	
1″ Pipe		
Close	GNS16	BLNS16
2″	GNL1620	BLNL1620
2½″	GNL1625	BLNL1625
3″	GNL1630	BLNL1630
3½″	GNL1635	BLNL1635
4″	GNL1640	BLNL1640
4½″	GNL1645	BLNL1645
5″	GNL1650	BLNL1650
5½″	GNL1655	BLNL1655
6″	GNL1660	BLNL1660
1¼″ Pipe		
Close	GNS20	BLNS20
2″	GNL2020	BLNL2020
2½″	GNL2025	BLNL2025
3″	GNL2030	BLNL2030
3½″	GNL2035	BLNL2035
4″	GNL2040	BLNL2040
4½″	GNL2045	BLNL2045
5″	GNL2050	BLNL2050
5½″	GNL2055	BLNL2055
6″	GNL2060	BLNL2060
1½″ Pipe		
Close	GNS24	BLNS24
2″	GNL2420	BLNL2420
2½″	GNL2425	BLNL2425
3″	GNL2430	BLNL2430
3½″	GNL2435	BLNL2435
4″	GNL2440	BLNL2440
4½″	GNL2445	BLNL2445
5″	GNL2450	BLNL2450
5½″	GNL2455	BLNL2455

GALVANIZED & BLACK PIPE FITTINGS

Tees

Size	Galvanized Part Number	Black Part Number
⅛	GPT2	BLPT2
¼	GPT4	BLPT4
⅜	GPT6	BLPT6
½	GPT8	BLPT8
¾	GPT12	BLPT12
1"	GPT16	BLPT16
1¼"	GPT20	BLPT20
1½"	GPT24	BLPT24
2"	GPT32	BLPT32

Reduced Couplings

Size	Galvanized Part Number	Black Part Number
¼ × ⅛	GRC4-2	BLRC4-2
⅜ × ⅛	GRC6-2	BLRC6-2
⅜ × ¼	GRC6-4	BLRC6-4
½ × ⅛	GRC8-2	BLRC8-2
½ × ¼	GRC8-4	BLRC8-4
½ × ⅜	GRC8-6	BLRC8-6
¾ × ¼	GRC12-4	BLRC12-4
¾ × ⅜	GRC12-6	BLRC12-6
¾ × ½	GRC12-8	BLRC12-8
1 × ½	GRC16-8	BLRC16-8
1 × ¾	GRC16-12	BLRC16-12
1¼ × ½	GRC20-8	BLRC20-8
1¼ × ¾	GRC20-12	BLRC20-12
1¼ × 1	GRC20-16	BLRC20-16
1½ × ½	GRC24-8	BLRC24-8
1½ × ¾	GRC24-12	BLRC24-12
1½ × 1	GRC24-16	BLRC24-16
1½ × 1¼	GRC24-20	BLRC24-20
2 × 1	GRC32-16	BLRC32-16
2 × 1¼	GRC32-20	BLRC32-20
2 × 1½	GRC32-24	BLRC32-24

Square Head Plugs

Size	Galvanized Part Number	Black Part Number
⅛	GSP2	BLSP2
¼	GSP4	BLSP4
⅜	GSP6	BLSP6
½	GSP8	BLSP8
¾	GSP12	BLSP12
1"	GSP16	BLSP16
1¼"	GSP20	BLSP20

Hex Bushings

Size	Galvanized Part Number	Black Part Number
Machined		
¼ × ⅛	GPBM4-2	BLPBM4-2
⅜ × ⅛	GPBM6-2	BLPBM6-2
⅜ × ¼	GPBM6-4	BLPBM6-4
Malleable		
⅜ × ¼	GPB6-4	
½ × ⅛	GPB8-2	BLPB8-2
½ × ¼	GPB8-4	BLPB8-4
½ × ⅜	GPB8-6	BLPB8-6
¾ × ⅛	GPB12-2	
¾ × ¼	GPB12-4	BLPB12-4
¾ × ⅜	GPB12-6	BLPB12-6
¾ × ½	GPB12-8	BLPB12-8
1 × ⅜	GPB16-6	BLPB16-6
1 × ½	GPB16-8	BLPB16-8
1 × ¾	GPB16-12	BLPB16-12
1¼ × ⅜	GPB20-6	
1¼ × ½	GPB20-8	BLPB20-8
1¼ × ¾	GPB20-12	BLPB20-12
1¼ × 1	GPB20-16	BLPB20-16
1½ × ½	GPB24-8	BLPB24-8
1½ × ¾	GPB24-12	BLPB24-12
1½ × 1	GPB24-16	BLPB24-16
1½ × 1¼	GPB24-20	BLPB24-20
2 × ½	GPB32-8	BLPB32-8
2 × ¾	GPB32-12	BLPB32-12
2 × 1	GPB32-16	BLPB32-16
2 × 1¼	GPB32-20	BLPB32-20
2 × 1½	GPB32-24	BLPB32-24

E

90° Street Elbows

Size	Galvanized Part Number	Black Part Number
⅛"	GE9S2-2	BLE9S2-2
¼"	GE9S4-4	BLE9S4-4
⅜"	GE9S6-6	BLE9S6-6
½"	GE9S8-8	BLE9S8-8
¾"	GE9S12-12	BLE9S12-12
1"	GE9S16-16	BLE9S16-16
1¼"	GE9S20-20	BLE9S20-20
1½"	GE9S24-24	BLE9S24-24
2"	GE9S32-32	BLE9S32-32

45° Street Elbows

Size	Galvanized Part Number	Black Part Number
⅛"	GE4S2-2	BLE4S2-2
¼"	GE4S4-4	BLE4S4-4
⅜"	GE4S6-6	BLE4S6-6
½"	GE4S8-8	BLE4S8-8
¾"	GE4S12-12	BLE4S12-12
1"	GE4S16-16	BLE4S16-16
1¼"	GE4S20-20	BLE4S20-20
1½"	GE4S24-24	BLE4S24-24
2"	GE4S32-32	BLE4S32-32

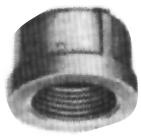
90° Elbows

Size	Galvanized Part Number	Black Part Number
⅛"	GE9-2-2	BLE9-2-2
¼"	GE9-4-4	BLE9-4-4
⅜ × ¼	GE9-6-4	BLE9-6-4
⅜"	GE9-6-6	BLE9-6-6
½ × ⅜	GE9-8-6	BLE9-8-6
½	GE9-8-8	BLE9-8-8
¾ × ½	GE9-12-8	BLE9-12-8
¾	GE9-12-12	BLE9-12-12
1 × ¾	GE9-16-12	BLE9-16-12
1	GE9-16-16	BLE9-16-16
1¼ × 1	GE9-20-16	BLE9-20-16
1¼	GE9-20-20	BLE9-20-20
1½ × 1¼	GE9-24-20	BLE9-24-20
1½	GE9-24-24	BLE9-24-24
2 × 1½	GE9-32-24	BLE9-32-24
2"	GE9-32-32	BLE9-32-32

45° Elbows

Size	Galvanized Part Number	Black Part Number
⅛"	GE4-2-2	BLE4-2-2
¼"	GE4-4-4	BLE4-4-4
⅜"	GE4-6-6	BLE4-6-6
½"	GE4-8-8	BLE4-8-8
¾"	GE4-12-12	BLE4-12-12
1"	GE4-16-16	BLE4-16-16
1¼"	GE4-20-20	BLE4-20-20
1½"	GE4-24-24	BLE4-24-24
2"	GE4-32-32	BLE4-32-32

Pipe Caps



Size	Galvanized Part Number	Black Part Number
⅛"	GPCA2	BLCA2
¼"	GPCA4	BLCA4
⅜"	GPCA6	BLCA6
½"	GPCA8	BLCA8
¾"	GPCA12	BLCA12
1"	GPCA16	BLCA16
1¼"	GPCA20	BLCA20
1½"	GPCA24	BLCA24
2"	GPCA32	BLCA32

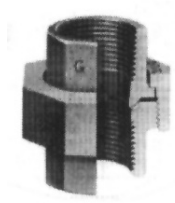
Pipe Cross

Size	Galvanized Part Number	Black Part Number
⅛"	GCR2	BLCR2
¼"	GCR4	BLCR4
⅜"	GCR6	BLCR6
½"	GCR8	BLCR8
¾"	GCR12	BLCR12
1"	GCR16	BLCR16
1¼"	GCR20	BLCR20
1½"	GCR24	BLCR24
2"	GCR32	BLCR32

Galvanized & Black Pipe Fittings

GALVANIZED & BLACK PIPE FITTINGS

Pipe Unions - 150 lb.



Size	Galvanized Part Number	Black Part Number
1/8″	GPU2	BLPU2
1/4″	GPU4	BLPU4
3/8″	GPU6	BLPU6
1/2″	GPU8	BLPU8
3/4″	GPU12	BLPU12
1″	GPU16	BLPU16
1 1/4″	GPU20	BLPU20
1 1/2″	GPU24	BLPU24
2″	GPU32	BLPU32

Pipe Coupling

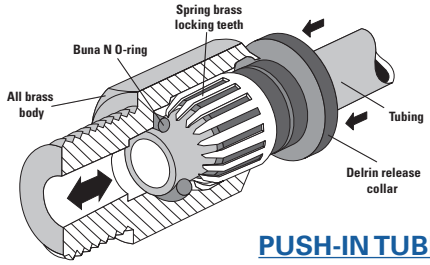
Size	Galvanized Part Number	Black Part Number
1/8″	GPC2-2	BLPC2-2
1/4″	GPC4-4	BLPC4-4
3/8″	GPC6-6	BLPC6-6
1/2″	GPC8-8	BLPC8-8
3/4″	GPC12-12	BLPC12-12
1″	GPC16-16	BLPC16-16
1 1/4″	GPC20-20	BLPC20-20
1 1/2″	GPC24-24	BLPC24-24
2″	GPC32-32	BLPC32-32

Push-in Tube Fittings

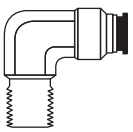
E

Features

- Easy one-piece connection
- No tools or extra components needed to connect fitting
- Fittings designed to work with polyurethane, nylon and polyethylene tubing
- Reduced assembly time...up to 75% savings compared to compression fittings
- Automatically locks and seals to max. working pressure
- Wide-release collar allows fast and easy removal of tubing for line checks
- Positive gripping-action of locking teeth allows tubing to withstand vibration with or without pressure
- Because there is no nut, fittings can be closely mounted
- Unrestricted tube I.D. allows for maximum airflow
- Poly-matic fittings are fully reusable
- Silicon-free O-rings



PUSH-IN TUBE FITTINGS



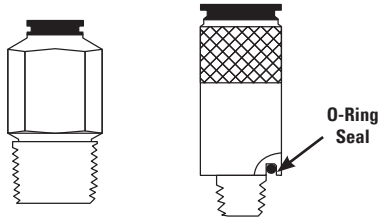
MALE ELBOWS

Specifications

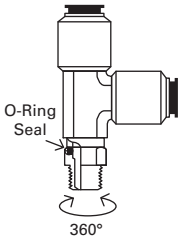
- Working pressure: From 27″ Hg to 250 PSI
- Working temperature: –40°F to +200°F
- Materials: Brass body, spring brass locking teeth, oil-resistant Buna-N O-ring, tough Delrin release collar
- Fluid applications: Compressed air, oil, water or other non-corrosive liquids
- To connect tubing - simply push the tubing into the fitting until it bottoms; to remove tubing - push in release collar; while pressing on collar, pull tubing out.

Male Elbows

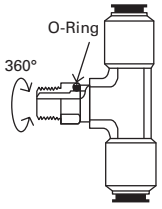
Tube OD	Pipe Thread	Part Number
5/32	10–32 UNF	55010
5/32	1/8	56912
5/32	1/4	56914
1/4	1/8	56942
1/4	1/4	56944
3/8	1/4	56964
3/8	3/8	56966
1/2	3/8	56986
1/2	1/2	56988



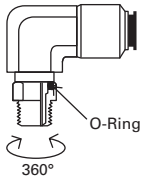
MALE CONNECTORS



MALE SWIVEL RUN TEE



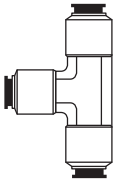
MALE SWIVEL BRANCH TEE



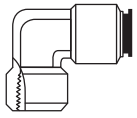
360° SWIVEL ELBOWS

UNION REDUCER

STRAIGHT UNION



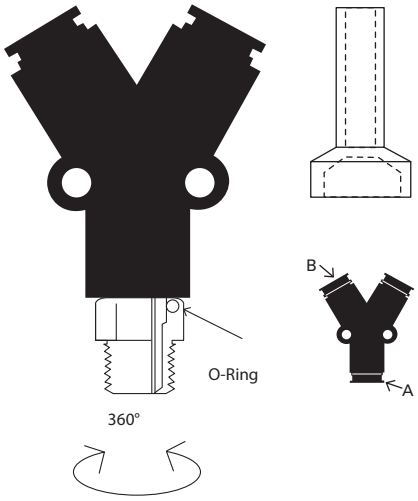
UNION TEE



FEMALE ELBOW

Tube O.D.	Pipe Thread	Part Number
Male Connectors		
5/32	10/32 UNF	56810
5/32	1/8	56812
5/32	1/4	56814
1/4	10/32 UNF	56840
1/4	1/8	56842
1/4	1/4	56844
1/4	3/8	56846
3/8	1/4	56864
3/8	3/8	56866
3/8	1/2	56868
1/2	3/8	56886
1/2	1/2	56888
Male Swivel Run Tee		
1/4	1/8	57142
1/4	1/4	57144
3/8	3/8	57164
1/2	1/2	57188
Male Swivel Branch Tee		
1/4	1/8	57242
1/4	1/4	57244
360° Swivel Elbows		
5/32	1/8	57912
5/32	1/4	57914
1/4	1/8	57942
1/4	1/4	57944
1/4	3/8	57946
3/8	1/4	57964
3/8	3/8	57966
1/2	3/8	57986
1/2	1/2	57988
Union Reducer		
1/4	1/8	59742
1/4	5/32	59741
3/8	1/4	59764
1/2	3/8	59786
Straight Union		
5/32	–	56211
1/4	–	56244
3/8	–	56266
1/2	–	56288
Union Tee		
1/4	–	56444
3/8	–	56466
Female Elbow		
1/4	1/8	57042
1/4	1/4	57044
3/8	1/4	57064

Push-In Tube Fittings



Tube O.D.	Pipe Thread	Part Number
Branch "Y"		
5⁄32	1⁄8	54312
3⁄8	3⁄8	54366
Plug		
1⁄8	–	52620
5⁄32	–	52610
1⁄4	–	52640
3⁄8	–	52660
1⁄2	–	52680
Union "Y"		
5⁄32 (3 PT)	5⁄32	54011
1⁄4 (3 PT)	5⁄32	54114
1⁄4 (3 PT)	1⁄4	54144

Cam & Groove Couplings

- Very low cost
- Interchangeable with other brands
- For use with pneumatic conveying and low pressure liquids –20° to 200°F
- Special seals may be required for oils and aromatics; please consult DME when ordering

Type A

Type B

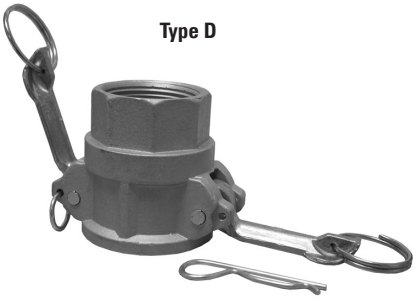
Size	Aluminum	Brass	Stainless
3⁄4"	A75AL	A75BR	A75SS
1"	A1AL	A1BR	A1SS
1 1⁄4"	A125AL	A125BR	A125SS
1 1⁄2"	A150AL	A150BR	A150SS
2"	A2AL	A2BR	A2SS
2 1⁄2"	A250AL	A250BR	A250SS
3"	A3AL	A3BR	A3SS
4"	A4AL	A4BR	A4SS
5"	A5AL	A5BR	
6"	A6AL	A6BR	
3⁄4"	B75AL	B75BR	B75SS
1"	B1AL	B1BR	B1SS
1 1⁄4"	B125AL	B125BR	B125SS
1 1⁄2"	B150AL	B150BR	B150SS
2"	B2AL	B2BR	B2SS
2 1⁄2"	B250AL	B250BR	B250SS
3"	B3AL	B3BR	B3SS
4"	B4AL	B4BR	B4SS
5"	B5AL	B5BR	
6"	B6AL	B6BR	

CAM & GROOVE COUPLINGS

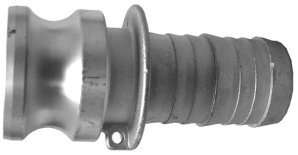
Cam & Groove Couplings

Type C

Type D

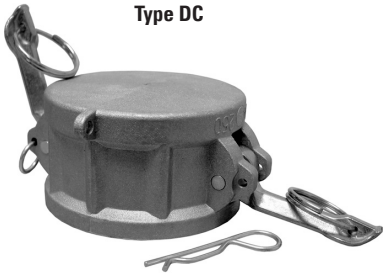


Type E



Type F

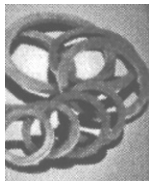
Type DC



Size	Aluminum	Brass	Stainless
¾″	C75AL	C75BR	C75SS
1″	C1AL	C1BR	C1SS
1¼″	C125AL	C125BR	C125SS
1½″	C150AL	C150BR	C150SS
2″	C2AL	C2BR	C2SS
2½″	C250AL	C250BR	C250SS
3″	C3AL	C3BR	C3SS
4″	C4AL	C4BR	C4SS
5″	C5AL	C5BR	
6″	C6AL	C6BR	
¾″	D75AL	D75BR	D75SS
1″	D1AL	D1BR	D1SS
1¼″	D125AL	D125BR	D125SS
1½″	D150AL	D150BR	D150SS
2″	D2AL	D2BR	D2SS
2½″	D250AL	D250BR	D250SS
3″	D3AL	D3BR	D3SS
4″	D4AL	D4BR	D4SS
5″	D5AL	D5BR	
6″	D6AL	D6BR	
¾″	E75AL	E75BR	E75SS
1″	E1AL	E1BR	E1SS
1¼″	E125AL	E125BR	E125SS
1½″	E150AL	E150BR	E150SS
2″	E2AL	E2BR	E2SS
2½″	E250AL	E250BR	E250SS
3″	E3AL	E3BR	E3SS
4″	E4AL	E4BR	E4SS
5″	E5AL	E5BR	
6″	E6AL	E6BR	
¾″	F75AL	F75BR	F75SS
1″	F1AL	F1BR	F1SS
1¼″	F125AL	F125BR	F125SS
1½″	F150AL	F150BR	F150SS
2″	F2AL	F2BR	F2SS
2½″	F250AL	F250BR	F250SS
3″	F3AL	F3BR	F3SS
4″	F4AL	F4BR	F4SS
5″	F5AL	F5BR	
6″	F6AL	F6BR	
¾″	DC75AL	DC75BR	DC75SS
1″	DC1AL	DC1BR	DC1SS
1¼″	DC125AL	DC125BR	DC125SS
1½″	DC150AL	DC150BR	DC150SS
2″	DC2AL	DC2BR	DC2SS
2½″	DC250AL	DC250BR	DC250SS
3″	DC3AL	DC3BR	DC3SS
4″	DC4AL	DC4BR	DC4SS
5″	DC5AL	DC5BR	
6″	DC6AL	DC6BR	

Type DP

Size	Aluminum	Brass	Stainless
¾″	DP75AL	DP75BR	DP75SS
1″	DP1AL	DP1BR	DP1SS
1¼″	DP125AL	DP125BR	DP125SS
1½″	DP150AL	DP150BR	DP150SS
2″	DP2AL	DP2BR	DP2SS
2½″	DP250AL	DP250BR	DP250SS
3″	DP3AL	DP3BR	DP3SS
4″	DP4AL	DP4BR	DP4SS
5″	DP5AL	DP5BR	
6″	DP6AL	DP6BR	



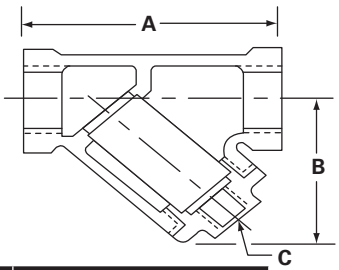
Gaskets

Size	Part Number	Size	Part Number
¾″	CGG034	2–½″	CGG212
1″	CGG100	3″	CGG300
1–¼″	CGG114	4″	CGG400
1–½″	CGG112	5″	CGG500
2″	CGG200	6″	CGG600

Bronze “Y” Pattern Strainer

E

Y-strainers are constructed of heavy-duty bronze. They have a 20 mesh 304 stainless steel screen in sizes “–2” and a 1/16” perforated strainer in 2” and 3”. The bronze retainer cap is gasketed and tapped for a closure plug (closure plug furnished). Install strainers upstream to protect valves, regulators, and meters, etc. from rust, pipe scale and dirt. Self cleaning can be accomplished by opening the valve or plug connected to the blow-off outlet.



- Y pattern body
- 304 stainless steel screen
- 300 PSI WOG non-shock
- Screwed cap and plug
- Threaded ends
- 150 PSI saturated steam

Part	Specifications
Body	Bronze
Cap	Bronze
Screen	Type 304 S.S.

Part Number	Thread Size	A	B	C (NPT)	Replacement Strainers Part Number
BYS523	½″	2.94	2.95	¼″	BYS523R
BYS524	¾″	3.38	3.37	¼″	BYS524R
BYS525	1″	4.13	3.97	⅜″	BYS525R
BYS526	1–¼″	4.82	4.55	⅜″	BYS526R
BYS527	1–½″	5.38	4.94	½″	BYS527R
BYS528	2″	6.63	6.25	½″	BYS528R
BYS529	2–½″	9.00	7.5	1–¼″	BYS529R
BYS530	3″	10.00	8.5	1–½″	BYS530R

BRONZE Y PATTERN STRAINER

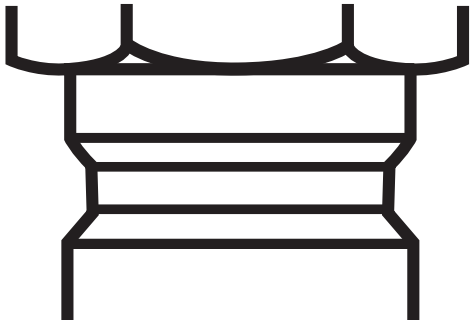
Split Flange Adapters

- One-piece carbon steel construction simplifies installation, eliminates potential leak points
- Zinc dichromate finish for high corrosion resistance
- Compact design simplifies assembly
- Optional thread configurations - BSPP and NPTF (call DME for availability)

JIC Thread

Part Number	Tube O.D.	Flange Size	A	B	Thread
Code 61					
300-8-8	½	½	2.60	1.188	¾–16
300-8-12	½	¾	2.75	1.500	¾–16
300-12-12	¾	¾	2.75	1.500	1 1/16–12
300-16-12	1	¾	2.75	1.500	1 5/16–12
300-12-16	¾	1	2.80	1.750	1 1/16–12
300-16-16	1	1	2.80	1.750	1 5/16–12
300-20-16	1¼	1	2.80	1.750	1⅝–12
300-16-20	1	1¼	2.80	2.000	1 5/16–12
300-20-20	1¼	1¼	2.80	2.000	1⅝–12
300-24-20	1½	1¼	3.40	2.000	1⅞–12
300-20-24	1¼	1½	3.50	2.375	1⅝–12
300-24-24	1½	1½	3.50	2.375	1⅞–12
300-32-24	2	1½	4.20	2.375	2½–12
300-24-32	1½	2	3.73	2.812	1⅞–12
300-32-32	2	2	3.98	2.812	2½–12
Code 62					
600-12-12	¾	¾	2.75	1.625	1 1/16–12
600-16-12	1	¾	2.75	1.625	1 5/16–12
600-12-16	¾	1	2.80	1.875	1 1/16–12
600-16-16	1	1	2.80	1.875	1 5/16–12
600-20-16	1¼	1	2.80	1.875	1⅝–12
600-16-20	1	1¼	3.05	2.125	1 5/16–12
600-20-20	1¼	1¼	3.05	2.125	1⅝–12
600-24-20	1½	1¼	3.30	2.125	1⅞–12
600-20-24	1¼	1½	3.50	2.500	1⅝–12
600-24-24	1½	1½	3.50	2.500	1⅞–12
600-32-24	2	1½	4.94	2.500	2½–12
600-24-32	1½	2	3.98	3.125	1⅞–12
600-32-32	2	2	4.23	3.125	2½–12

SPLIT FLANGE ADAPTERS-JIS



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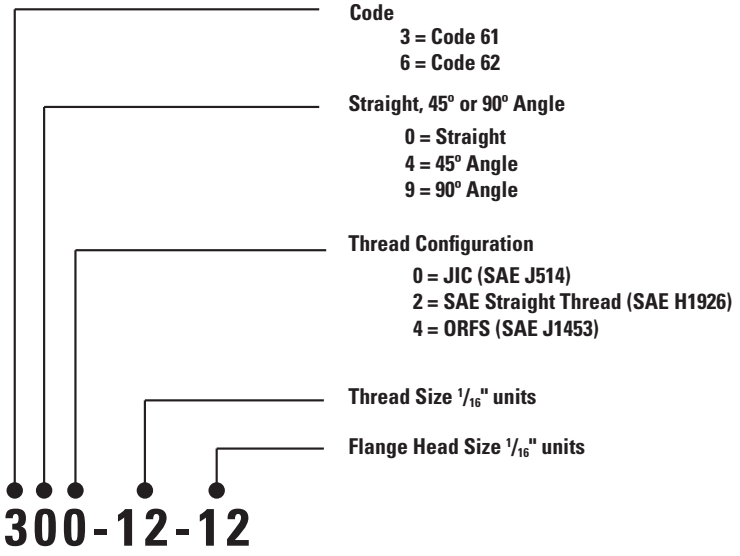
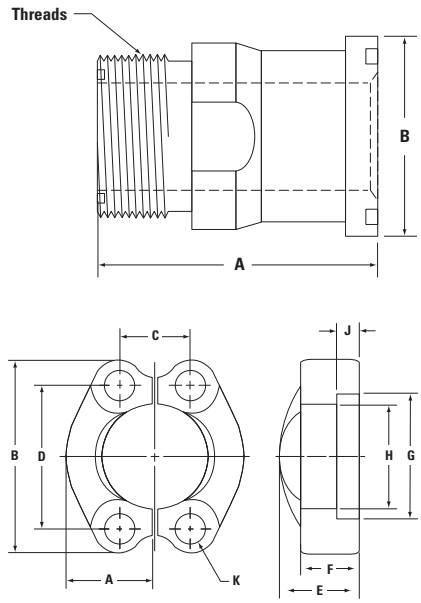


ORFS Thread

Part Number	Tube O.D.	Flange Size	A	B	Thread
Code 61					
304-12-12	¾	¾	2.75	1.500	1 3/16–12
304-16-12	1	¾	2.75	1.500	1 7/16–12
304-12-16	¾	1	2.80	1.750	1 3/16–12
304-16-16	1	1	2.80	1.750	1 7/16–12
304-20-16	1¼	1	2.80	1.750	1 11/16–12
304-16-20	1	1¼	2.80	2.000	1 7/16–12
304-20-20	1¼	1¼	2.80	2.000	1 11/16–12
304-24-20	1½	1¼	3.20	2.000	2–12
304-20-24	1¼	1½	3.50	2.375	1 11/16–12
304-24-24	1½	1½	3.50	2.375	2–12
304-24-32	1½	2	3.33	2.812	2–12
Code 62					
604-8-8	½	½	2.58	1.250	1 3/16–16
604-12-12	¾	¾	2.75	1.625	1 3/16–12
604-16-12	1	¾	2.75	1.625	1 7/16–12
604-12-16	¾	1	2.80	1.875	1 3/16–12
604-16-16	1	1	2.80	1.875	1 7/16–12
604-20-16	1¼	1	3.20	1.875	1 11/16–12
604-16-20	1	1¼	3.05	2.125	1 7/16–12
604-20-20	1¼	1¼	3.05	2.125	1 11/16–12
604-24-20	1½	1¼	3.30	2.125	2–12
604-20-24	1¼	1½	3.50	2.500	1 11/16–12
604-24-24	1½	1½	3.50	2.500	2–12
604-24-32	1½	2	3.581	3.125	2–12

SPLIT FLANGE ADAPTERS-ORFS



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CONTACT US

Split Flange Kits

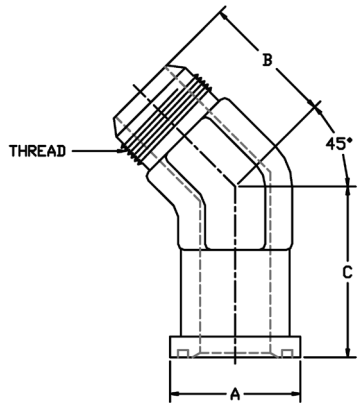
Flange Half No.	*KIT	Flange Size	A	B	D	E	F	G	H	J	K	O-Ring	HHCS
Code 61													
8SF-2	**8SFO**	0.50	0.86	2.12	1.50	0.75	0.5	1.22	0.96	0.245	0.344	210	5/16–18 × 1.25
12SF-2	**12SFO**	0.75	0.98	2.56	1.88	0.88	0.56	1.53	1.27	0.245	0.406	214	3/8–16 × 1.25
16SF-2	**16SFO**	1.00	1.11	2.75	2.06	0.94	0.62	1.78	1.52	0.295	0.406	219	3/8–16 × 1.25
20SF-2	**20SFO**	1.25	1.39	3.12	2.31	0.88	0.56	2.03	1.72	0.295	0.469	222	7/16–14 × 1.50
24SF-2	**24SFO**	1.50	1.58	3.69	2.75	1.00	0.62	2.41	2.00	0.295	0.531	225	1/2–13 × 1.50
32SF-2	**32SFO**	2.00	1.86	4.00	3.06	1.03	0.62	2.84	2.47	0.355	0.531	228	1/2–13 × 1.50
40SF-2	**40SFO**	2.50	2.09	4.50	3.50	1.50	0.75	3.34	2.95	0.355	0.531	232	1/2–13 × 1.75
48SF-2	**48SFO**	3.00	2.53	5.31	4.19	1.62	0.88	4.03	3.58	0.355	0.656	237	5/8–11 × 1.75
56SF-2	**56SFO**	3.50	2.70	6.00	4.75	1.12	0.88	4.53	4.03	0.422	0.656	241	5/8–11 × 2.00
64SF-2	**64SFO**	4.00	2.95	6.38	5.13	1.38	1.00	5.03	4.53	0.422	0.656	245	5/8–11 × 2.00
Code 62													
8SFX-2	**8SFXO**	0.50	0.89	2.22	1.59	0.88	0.62	1.28	.970	0.285	0.344	210	5/16–18 × 1.25
12SFX-2	**12SFXO**	0.75	1.14	2.81	2.00	1.12	0.75	1.66	1.28	0.325	0.406	214	3/8–16 × 1.50
16SFX-2	**16SFXO**	1.00	1.33	3.19	2.25	1.31	0.94	1.91	1.53	0.355	0.469	219	7/16–14 × 1.75
20SFX-2	**20SFXO**	1.25	1.48	3.75	2.63	1.50	1.06	2.16	1.75	0.385	0.531	222	1/2–13 × 1.75
24SFX-2	**24SFXO**	1.50	1.83	4.44	3.13	1.69	1.19	2.53	2.03	0.475	0.656	225	5/8–11 × 2.25
32SFX-2	**32SFXO**	2.00	2.20	5.25	3.81	2.06	1.44	3.16	2.66	0.475	0.781	228	3/4–10 × 2.75

* Kit includes (2) split flange halves, (4) hex head bolts & lock washers and (1) Buna N o-ring.

Split Flange Adapters

45° JIC Thread

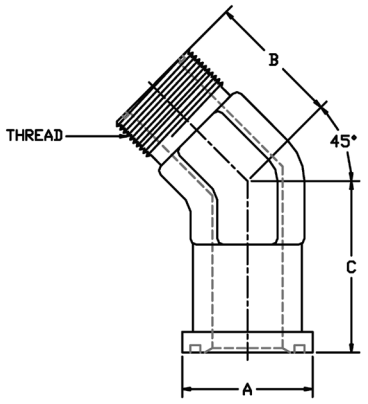
Part Number	Tube O.D.	Flange Size	A	B	C	Thread
CODE 61						
340-12-12	¾	¾	1.500	1.28	1.58	1 1/16–12
340-16-16	1	1	1.750	1.47	1.85	1 5/16–12
340-20-20	1¼	1¼	2.000	1.59	2.04	1⅝–12
340-24-24	1½	1½	2.375	1.78	2.38	1⅞–12
340-32-32	2	2	2.812	2.22	3.00	2½–12
CODE 62						
640-12-12	¾	¾	1.625	1.28	1.58	1 1/16–12
640-16-16	1	1	1.875	1.47	1.85	1 5/16–12
640-20-20	1¼	1¼	2.125	1.59	2.04	1⅝–12
640-24-24	1½	1½	2.500	1.78	2.38	1⅞–12
640-32-32	2	2	3.125	2.22	3.00	2½–12



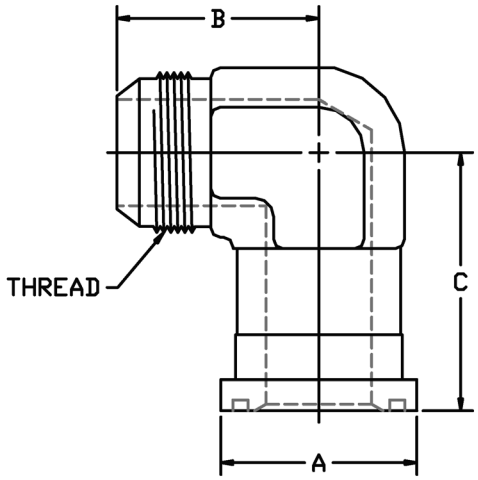
SPLIT FLANGE ADAPTERS-JIS

45° ORFS Thread

Part Number	Tube O.D.	Flange Size	A	B	C	Thread
CODE61						
344-12-12	¾	¾	1.500	1.28	1.58	1 3/16–12
344-16-16	1	1	1.750	1.47	1.85	1 7/16–12
344-20-20	1¼	1¼	2.000	1.59	2.04	1 11/16–12
344-24-24	1½	1½	2.375	1.78	2.38	2–12
CODE 62						
644-12-12	¾	¾	1.625	1.28	1.58	1 3/16–12
644-16-16	1	1	1.875	1.47	1.85	1 7/16–12
644-20-20	1¼	1¼	2.125	1.59	2.04	1 11/16–12
644-24-24	1½	1½	2.500	1.78	2.38	2–12



SPLIT FLANGE ADAPTERS-ORFS



90° JIC Thread

Part Number	Tube O.D.	Flange Size	A	B	C	Thread
CODE 61						
390-8-12	½	¾	1.500	1.660	2.130	¾–16
390-12-12	¾	¾	1.500	1.660	2.130	1 1/16–12
390-16-12	1	¾	1.500	1.660	2.130	1 5/16–12
390-12-16	¾	1	1.750	1.810	2.370	1 1/16–12
390-16-16	1	1	1.750	1.810	2.370	1 5/16–12
390-20-16	1¼	1	1.750	1.810	2.370	1⅝–12
390-16-20	1	1¼	2.000	2.060	2.620	1 5/16–12
390-20-20	1¼	1¼	2.000	2.060	2.620	1⅝–12
390-20-24	1¼	1½	2.375	2.330	3.150	1⅝–12
390-24-24	1½	1½	2.375	2.330	3.150	1⅞–12
390-32-24	2	1½	2.375	2.330	3.150	2½–12
390-24-32	1½	2	2.812	3.060	4.250	1⅞–12
390-32-32	2	2	2.812	3.060	4.250	2½–12
CODE 62						
690-12-12	¾	¾	1.625	1.660	2.130	1 1/16–12
690-16-12	1	¾	1.625	1.660	2.130	1 5/16–12
690-12-16	¾	1	1.875	1.810	2.370	1 1/16–12
690-16-16	1	1	1.875	1.810	2.370	1 5/16–12
690-20-16	1¼	1	1.875	1.810	2.370	1⅝–12
690-16-20	1	1¼	2.125	2.060	2.760	1 5/16–12
690-20-20	1¼	1¼	2.125	2.060	2.760	1⅝–12
690-24-20	1½	1¼	2.125	2.190	2.760	1⅞–12
690-20-24	1¼	1½	2.500	2.330	3.150	1⅝–12
690-24-24	1½	1½	2.500	2.330	3.150	1⅞–12
690-32-24	2	1½	2.500	3.060	4.250	2½–12
690-24-32	1½	2	3.125	3.060	4.250	1⅞–12
690-32-32	2	2	3.125	3.060	4.250	2½–12

Parker® Hose

Jiffy™ Push-On Multipurpose Oil Resistant Hose Series 7212

Parker's Series 7212 Jiffy Push-On/Push Lock Oil Resistant Multipurpose Industrial Hose provides excellent service across a wide variety of media and multiple applications. This hose is designed to transfer air, mild chemicals, oil, water, and refined fuels such as biodiesel, ethanol, and gasoline in applications 212° F and 300 PSI. The flexible hose construction is compatible with push-on couplings for easy and secure attachment in the field and at the jobsite.
The flame retardant cover protects operators from fire hazards and is available in multiple colors for easy identification. Series 7212 is an abrasion, oil and weather resistant hose that provides versatile service in many common industrial applications.

SERIES 7212 HOSE

Features & Benefits

- **Tube:** Black Class A nitril for exceptional fuel and oil resistance to 212° F and 300 PSI
- **Tube:** Silicone free to eliminate contamination of air powered paint sprays systems
- **Reinforcement:** One textile braid for strength and kink resistance
- **Cover:** Chloroprene for abrasion, flame oil and weather resistance
- **Cover Colors:** Blue and Red for easy identification (additional colors can be quoted through our specials group)
- **Couplings:** Push-on; also qualified with steel crimp couplings for a durable, safe, and secure connection

2 stock colors available: Red and Blue

Part Number	Hose I. D.	Hose O. D.	Max. W. P.	Feet Per Reel
7212-381BL	3/8"	5/8"	300 (PSI)	700
7212-381RD	3/8"	5/8"		700
7212-501BL	1/2"	3/4"		600
7212-501RD	1/2"	3/4"		600

WARNINGS: The hose does not include a static wire; transfer of refined fuel may create an accumulation and catastrophic discharge of static electrical buildup.
This product can expose you to chemicals including 1,3-Butadiene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Parker® Push-Lok® 801 Color Coded

Standard Duty - Rugged, Reliable...PARKER
For long-term savings and reliable performance Push-Lok Hose from Parker is the first choice! Unmatched in quality and performance.

6 stock colors available:
Red, Blue, Gray, Yellow, Green and Black
Applications: Used worldwide for plastic molding temperature control, shop air and all types of general maintenance.
Temperature Range: –40 to 212°F, except air, 150°F and water, 180°F
Design: Smooth pressed cure synthetic rubber cover, one textile braid reinforcement, synthetic rubber inner tube.
Use for: anti-freeze, water, air, gasoline, diesel & lubrication oils.

Part Number	Hose I. D.	Hose O. D.	Max. W. P.	Min. Burst	Feet Per Reel
801-4-*	1/4"	.50	350 (PSI)	1400 (PSI)	600
801-6-*	3/8"	.63			450
801-8-*	1/2"	.78	300 (PSI)	1200 (PSI)	*300
801-10-*	5/8"	.91			300
801-12-*	3/4"	1.03			200
801-16-*	1"	1.28	200 (PSI)	800 (PSI)	150

*Specify stock color

PUSH-LOK HOSE

Push-Lok® Hose

Parker® - 836

High Temperature, Heat Resistant Hose
Parker's Push-Lok Pride!
The right hose to use when elevated temperatures are a problem. The PKR elastomer is compatible with most fluids. If you are having temperature problems with hose this might be just the solution.

Construction: PKR elastomer liner, one fabric braid reinforcement, blue (or black) PKR elastomer cover. Temperature Range: –55 to 300°F, except air, 200°F max. and 180°F max. Continuous use at extremes of temp. & pressure will materially reduce service life. Applications: anti-freeze, water, air, diesel fuels, lubrication oils, maintenance and general industrial applications.

Choice of blue or black color.

HIGH-TEMP. PUSH-LOK HOSE

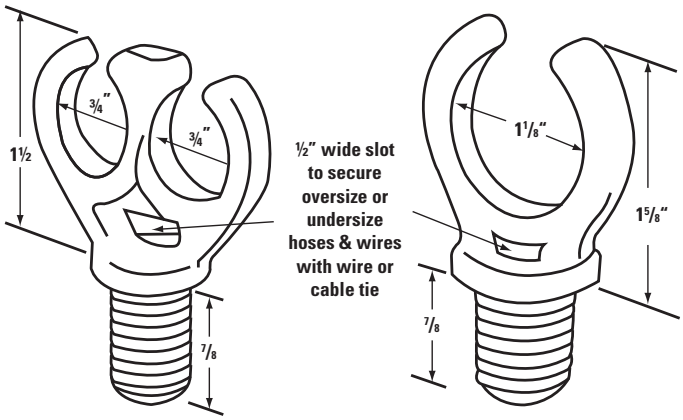
Part Number	Hose I. D.	Hose O. D.	Max. W. P.	Min. Burst	Feet Per Reel
836-4◆	¼″	.50	400psi	1000psi	600
836-6◆	⅜″	.62	400psi	1000psi	450
836-8◆	½″	.78	400psi	1000psi	300

◆ Add "blue" or "black" to part number to indicated color choice

Platen Hose Clips

- Metric & inch sizes!
- Low cost, very handy!
- Prevents pinching & abrasion
- Works for tubing too!
- Extends hose life
- Thread sizes to fit most platen holes
- Satisfaction guaranteed!

	Single	Double
Overall Height	2 9/16″	2⅜″
Height Above Base	1⅝″	1⅜″
Thickness Of Clip	⅜″	⅜″
Clip O. D.	1 11/16″	2″
Clip I. D.	1 5/32″	¾″
Clip Opening	⅝″	⅜″

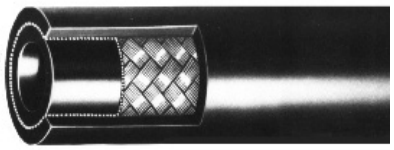


PLATEN HOSE CLIPS

	Single Hose Clip		Double Hose Clip	
Thread Sizes	Fits Hose Sizes	Part Number	Fits Hose Sizes	Part Number
½–13	FROM	**PHC1-8**	FROM	**PHC2-8**
⅝–11	⅝″	**PHC1-10**	⅜″TO	**PHC2-10**
¾–10	TO	**PHC1-12**	¾″	**PHC2-12**
1–8	1–⅛″O.D.	**PHC1-16**	O.D.	**PHC2-16**
M12 × 1.75mm	FROM	**PHC1-12M**	FROM	**PHC2-12M**
M14 × 2.00mm	⅝″	**PHC1-14M**	⅜″TO	**PHC2-14M**
M16 × 2.00mm	TO	**PHC1-16M**	¾″	**PHC2-16M**
M20 × 2.50mm	1–⅛″O.D.	**PHC1-20M**	O.D.	**PHC2-20M**

General Purpose Air & Water Hose

Norflex GP Hose is an economical air and water hose offering limited oil resistance for a variety of uses in industrial applications.
Strong and Flexible: GP Hose is reinforced with a single synthetic braid which offers both strength and flexibility. It is ideal for air, water, mild chemicals, alkalies and sprays. It resists the effects of small amounts of oil often found in air lines.
Pressure Resistance: GP Hose is made with a strong synthetic cord and will perform well in most applications not exceeding 200 PSI
(150 PSI - larger sizes).
Minumum Burst is 800 PSI –20° to 200°F. operating range



Colors:

- Black
- Red

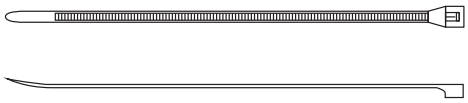
GENERAL AIR & WATER

Part Number	Ref. No.	Hose I.D.	Hose O.D.	Stock Colors	Working Pressure	Feet Per Reel
GP4*	WLH250	¼″	.47	Red/Black	200PSI	700
GP5RED	WLH312	5⁄16″	.66	Red	200PSI	700
GP6*	WLH375	⅜″	.66	Red/Black	200PSI	700
GP8*	WLH500	½″	.81	Red/Black	200PSI	700
GP12*	WLH750	¾″	1.08	Red/Black	200PSI	700
GP16*	WLH1000	1″	1.48	Red/Black	200PSI	700
GP20*	–	1¼″	1.73	Red/Black	150PSI	300
GP24*	–	1½″	1.98	Red/Black	150PSI	300

*Specify color; full 4:1 safety factor.

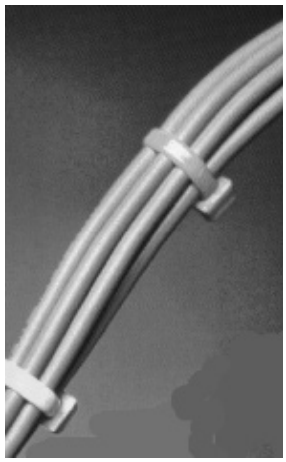
Nylon Cable Ties

- Made in USA
- High quality, low price!
- Use for: wire, cable, hose, ducting, retaining and repair



Ties feature a patented locking system that assures a firm grip. These natural-color cable ties have smooth edges and a taper tip for easy installation. UL approved.

NYLON TIES



Natural Color (off white) Ties

Part Number	Length O.A.	Max. Dia.	Tensile Looped	Pieces Per Bag
NCT4	4″	13⁄16″	18	100
NCT7	7″	1–3⁄4″	50	100
NCT11	11″	3″	50	100
NCT14	14″	4″	50	100
NCT14HD	14–1⁄2″	4″	175	100
NCT24HD	24–1⁄2″	7″	175	50

Black Color Ties

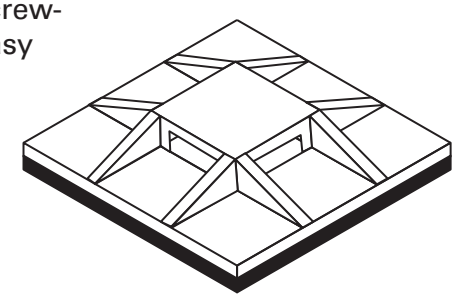
Part Number	Length O.A.	Max. Dia.	Tensile Looped	Pieces Per Bag
NCT4BLK	4″	13⁄16″	18	100
NCT7BLK	7″	1–3⁄4″	50	100
NCT11BLK	11″	3″	50	100
NCT14BLK	14″	4″	50	100
NCT14HDBLK	14–1⁄2″	4″	175	100
NCT24HDBLK	24–1⁄2″	7″	175	50

E

Cable Tie Bases

These Cable Tie Bases make mounting wire and cable a quick, easy and secure process. They are designed so they can be screw-mounted, and they also have an adhesive backing for extra easy application.

CABLE BASE



Black Nylon Cable Tie Base

Part Number	Description
6295	0.75″ × 0.75″ Base
6297	1″ × 1″ Base

PTFE Tape

- Permanent non-flammable seal
- Remains plastic permanently
- –450°F to +500°F
- Perfect for water connections, hydraulics, air, gas, petroleum
- This is the finest quality PTFE Tape available
- NEVER use thinner, cheaper substitutes

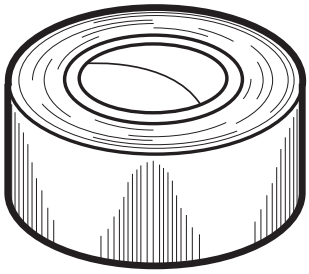
Part Number	Length	Thickness	Width
TT100	260″(21.6′)	0.0035	½″
TT200	520″(43.3′)	0.0035	½″
TT300	520″(43.3′)	0.0035	¾″

PTFE TAPE

PVC Silver Duct Tape

- 2″ × 180′ (60 yards)
- Strong adhesion
- Cloth backed
- High-tensile strength
- Great for use with dryer and loader hose
- Great value

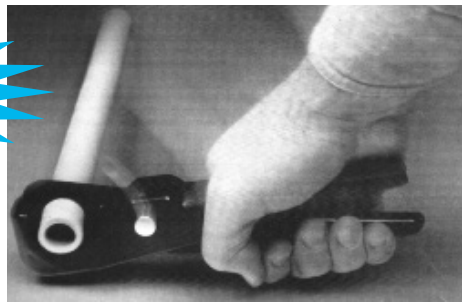
Part Number
RDT180



PVC SILVER DUCT TAPE

Standard Hose Cutter
cuts up to 1½" I.D. hose

Heavy-Duty Model



- More rigid and sturdy
- Safe, quick & clean
- Replaceable high-carbon, steel blade
- Blade closes into its own handle for safe carrying and handling
- Up to 8 times faster than sawing and deburring
- Cuts PE & PB through 1½" I.D., PVC up to 1¼"
- Ideally suited to limited working space, the cutter adapts easily where a conventional hacksaw cannot be used

HOSE CUTTERS

Part Number	Description
T135	Hose Cutter
BT135	Blades for Cutter

X-Large Hose Cutter
cuts up to 2" I.D. hose

- **cuts rubber hose and tubing through 2" I.D., P.E., through 1½" I.D., Class PVC through 1¼" I.D.**

Part Number	Description
T200	XL Hose Cutter
BT200	Blades for Cutter

E

Push-Lok® Cut-off Assembly Tool

Parker®

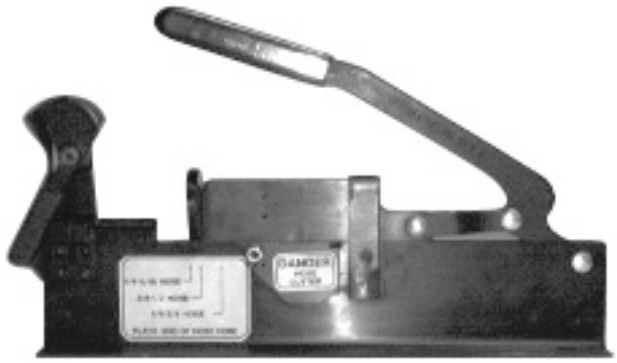
PUSH-LOK CUT-OFF ASSEMBLY TOOL

This unique tool combines a hose cutter with a toggle-action that presses the fitting into the hose.

Designed to handle Push-Lok hose from ¼" through ¾", this tool makes the job easier whether making one assembly or one hundred.

Overall Length 16"
Weight approx. 4 pounds

Part Number 881540



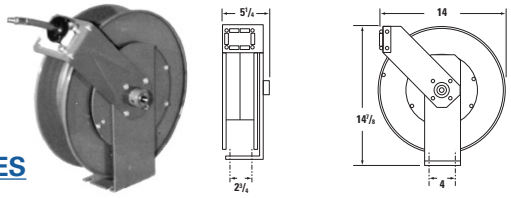
Hose Reels- B Series

The B Series Reels are best applied where shorter, low-volume hoses are used, such as auto-truck service garages for all air applications as well as anti-freeze, motor oil, ATF and grease. The 100% brass main shaft and swivel assure less corrosion for extended seal life in the low pressure rating (available up to 1000 PSI).
LOW PRESSURE - Air, water, anti-freeze
Hose Reel & 50′
1/4″ multi-purpose hose 300 PSI

Part Number LB250 **

Inlet is 3/8″ NPT
Max. Temp –200°F

HOSE REELS-B SERIES



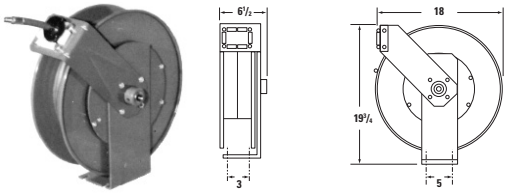
Other sizes, lengths and PSI available, ask one of our knowledgeable sales people.

Hose Reels - C Series

The C Series - Low Pressure Reels are ideally suited for plant maintenance, service trucks and many other industrial functions where hose storage is a problem. Standard hose for air, water and light oils. Other hoses available upon request.

Hose Reel complete with 50′
of 3/8″ multi-purpose hose 300 PSI
Part Number LC350 **

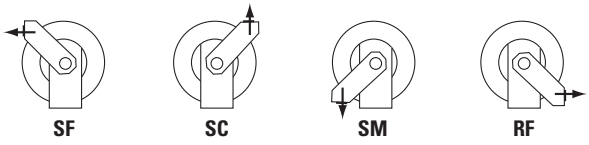
Inlet is 1/2″ NPT
Max. Temp – 200°F



Contact DME for other available sizes, lengths and PSI.

Universal Installation

The narrow size and a guide arm that can be easily rotated to any of the positions shown virtually solves all installation problems.



*** Reels are shipped in the SF position unless otherwise requested.*

HOSE REELS-C SEREIS

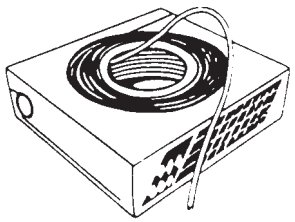
Nylon & Polyethylene Tubing

NYLON & POLYETHYLENE TUBING

Polyethylene Tubing (–40° to +135°F)

Part Number	Tubing		Burst Pressure	Wall Thick.	Box Quantity
	OD	ID			
PE44-100	¼″	.170	500	.040	100
PE88-100	½″	.375	500	.062	100

- Good all-purpose tubing
- Extremely low cost
- Many plant uses



Flexible Nylon Tubing (–60° to +250°F)

Part Number	Tubing		Burst Pressure	Wall Thick.	Box Quantity
	OD	ID			
NY44-100	¼″	.215	1000	.035	100

- High burst pressure & temperature
- More flexible than standard nylon
- Bends tighter without kinking

High Temperature Hose

Extruded Silicone

Go to extremes...with Norflex Silicone High Temperature Hose! This hose is perfect for extremely high and low temperatures! Right at home in under-the-hood high temperatures, it remains flexible and maintains its seal in temperatures from –65 to 350°F (–54 to 177°C); the ultimate in low pressure hose. Norflex Silicone Hose meets your requirements for permanent plumbing. It delivers everything you've come to expect from silicone hose...and more!

- Excellent resistance to hardening and shrinking which is often the cause of leakage in hose
- Flexibility in extremely low temperatures helps guarantee long service in "as new" condition
- Because Norflex Silicone is unaffected by ozone, it breathes easily during long, hot summers
- Because it never cracks, it avoids costly shutdowns due to hose failure

High Temp. Extruded Silicone Hose Meets & Exceeds All Performance Specs Of SAE J20 Part 3, SAE 20 R3 Class A

Part Number	Hose I.D.	Hose O.D.	Max. Working PSI Pressure	Burst PSI Pressure	Reel Length
NHC04	¼"	.460"	85	125	250
NHC06	⅜"	.635"	80	125	250
NHC08	½"	.760"	80	125	250
NHC10	⅝"	.925"	70	125	250
NHC12	¾"	1.070"	70	125	250

Be sure to use lined hose clamps with extruded hose (p. 481). *Special order 500' reels.

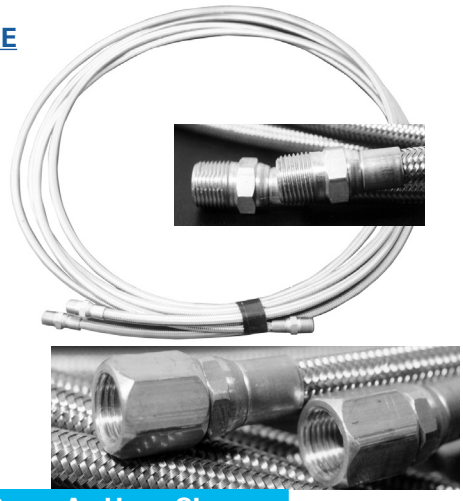
HIGH TEMP HOSE

E

PTFE High Heat Hose Assemblies

- Hot oil hose
- RIM monomer mixing
- Low volumetric expansion
- Smooth, clean, high temperature
- +450° operating pressures to 3000 PSI

PTFE HIGH HEAT HOSE



Reference Dimensions

Nominal Hose I.D.	Actual I.D. (Inches)	Working Pressure	Burst Pressure	Min. Bend Radius
¼"	.250	3000 PSI	12,000 PSI	2.0"
⅜"	.312	2500	10,000	4"
½"	.406	2000	8000	5.2"
¾"	.625	1200	4800	7.7"

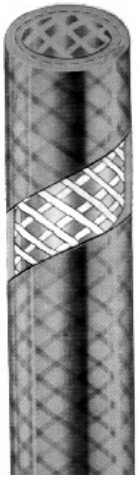
With NPT Brass Male Fittings Swaged Onto Both Ends, Same As Hose Size

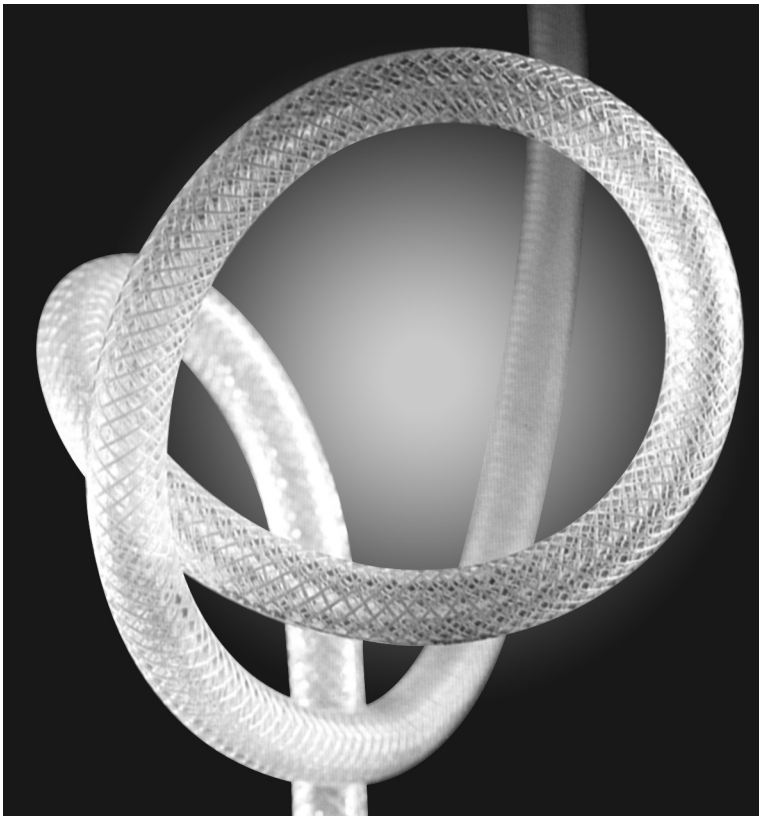
Length	¼"	⅜"	½"	¾"
4'	**TH04-MP48**	**TH06-MP48**	**TH08-MP48**	**TH12-MP48**
6'	**TH04-MP72**	**TH06-MP72**	**TH08-MP72**	**TH12-MP72**
8'	**TH04-MP96**	**TH06-MP96**	**TH08-MP96**	**TH12-MP96**
10'	**TH04-MP120**	**TH06-MP120**	**TH08-MP120**	**TH12-MP120**
12'	**TH04-MP144**	**TH06-MP144**	**TH08-MP144**	**TH12-MP144**

Female swivel JIC and stainless fittings are available; contact DME Industrial Supplies.

PVC Air & Water Hose

- Choice of clear, red or blue
- Tough yet lightweight
- Very flexible
- Highly abrasion resistant
- Non-marking food grade PVC
- Resistant to most chemicals
- Good for water, air & mild chemicals
- Temperature range: –20° to 150°F (–5° to 65°C)





1125 PVC - Opaque Hose

PVC AIR & WATER HOSE

Part Number						
Clear	Red	Blue	Inside Dia.	Outside Dia.	Working Pressure	Coil Length
1125-04	1125-04R	1125-04B	¼″	.438	250 PSI	300 Ft.
1125-05	–	–	5/16″	.525		
1125-06	1125-06R	1125-06B	⅜″	.625	225 PSI	
1125-08	1125-08R	1125-08B	½″	.750	200 PSI	
1125-10	–	–	⅝″	.875	200 PSI	
1125-12	–	–	¾″	1.025	150 PSI	
1125-16	–	–	1″	1.312	125 PSI	200 Ft.
1125-20	–	–	1¼″	1.656	100 PSI	100 Ft.
1125-24	–	–	1½″	1.937	100 PSI	
1125-32	–	–	2″	2.500	75 PSI	

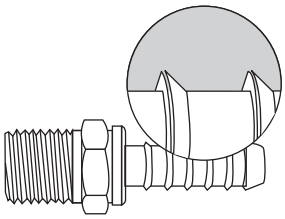
Translucent Hose

Part Number	Color	Inside Diameter	Outside Diameter	Working Pressure	Coil Length
1125-06KR	Red	⅜″	⅝″	200 PSI	82 Ft
1125-06KB	Blue				
1125-08KR	Red	½″	¾″		
1125-08KB	Blue				

Polyurethane Recoil

- Extremely flexible - resists kinking
- Impervious to abrasion & heat
- Made with pigtails on coil - no need for whip hoses
- Less operator fatigue - low tension
- Superior elasticity & coil memory
- Special full flow fittings

Orange Color!



The barb fittings used with our polyurethane hose are designed with this unique serrated gripping surface to hold the hose in place, especially under pressure.

Polyurethane Recoil

Part Number	Hose Size	Male Swivel	Hose Length
PU04-10S	¼″	¼″	10′
PU04-15S	¼″	¼″	15′
PU04-25S	¼″	¼″	25′

Both ends swivel.

POLYURETHANE RECOIL

1400 Silicone Duct

1400 High Temperature Duct

- Fabric: Standard silicone impregnated fiberglass cloth
- Helix: Galvanized steel
- Available diameters: 2″–24″
- Standard length: 25′
- Temperature range: –65°F to 600°F
- Positive pressure: 20″ W.G.
- Typical applications:
- High-temperature air, dust or fume control
- Resists alkalies, ozone & fungi

Available in 25' sections

1400 SILICONE DUCT

"Adhesive-Free" Construction

The 1400 High Temperature Duct is manufactured by a mechanical process without the use of adhesives. This enables our standard ducts to operate at higher temperatures than conventional ducts because there is no worry of glue melting down or burning.

Part Number	Hose I. D.
1400-2	2″
1400-212	2½″
1400-3	3″
1400-4	4″

1500 Insulated Duct

Service Conditions

A hose designed to move hot air from source to site of use, with minimal heat loss:

- Reduces heat loss/gain
- Clamps right to dryer take-off tube

Sold in 12 foot

Material

Outer: Polyester/Neoprene - U-Lok 100
Inner: Silicone/Fiberglass - U-Lok 401

Construction: Mechanical bond, corrosion resistant

Size: 2″ to 20″ I.D. - larger sizes available
Bend radius: 2 × I.D.
Standard length: 12 ft. long
Weight: 6″ I.D. = 2.1 lbs/ft.
Temperature range: – 65°F to 600°F

1500 INSULATED DUCT

Part Number	Hose I. D.
1500-2	2″
1500-3	3″
1500-4	4″
1500-5	5″
1500-6	6″

Silicone Dryer Hose

Silicone-coated fiberglass is highly resistant to extreme temperatures and is odor-free in hot air service. DME stocks most sizes listed below.
We offer same-day shipping on most items... Isn't it time to replace that old, cracked and patched ducting?

- Choose single- or double- ply
- Non-kicking, lightweight
- Industry standard product!
- Best selection of sizes, lowest prices!
- Orange cover

SILICONE DRYER HOSE

Single-Ply Silicone Duct — Rated to 600° F (500° continuous)

Part Number	Hose I. D.	Working Pressure	Stock Length
NSD1-2	2″	10	12′
NSD1-212	2½″	10	12′
NSD1-3	3″	10	12′
NSD1-5	5″	6	12′
NSD1-6	6″	4	12′
NSD1-8	8″	3	12′

Other sizes by request. 20′ lengths may be available in other sizes but are not stocked.
Hose sold only in lengths of 12′.

Double-Ply Silicone Duct — Rated to 600° F (500° continuous)

Part Number	Hose I. D.	Stock Length	Working Pressure
NSD2-114X12FT	1¼″	12′	60
NSD2-112X12FT	1½″	12′	55
NSD2-134X12FT	1¾″	12′	55
NSD2-2X12FT	2″	12′	50
NSD2-212X12FT	2½″	12′	45
NSD2-3X12FT	3″	12′	45
NSD2-4X12FT	4″	12′	40
NSD2-5X12FT	5″	12′	35
NSD2-6X12FT	6″	12′	30

Other sizes on request.

NND Return Air Duct

Neoprene Duct

- Rated to 350°F
- Perfect for return air or low-temp dryer
- Single-ply stocked - double-ply from factory; contact DME

Part Number	Hose I. D.	Stock Length
NND112	1½″	12′
NND134	1¾″	12′
NND2	2″	12′
NND212	2½″	12′
NND3	3″	12′
NND4	4″	12′
NND5	5″	12′
NND6	6″	12′
Thread hoses together for longer lengths.		

Sold in 12 foot sections

NND RETURN AIR DUCT

High Performance Hose

Series 1180 High Performance Hose is ideally suited for the transfer of pellets, granules and other abrasive materials.

This hose features a heavy-wall tube made of urethane, a resilient material known for its abrasion resistance and long-term performance under demanding conditions. A rigid PVC helix provides reinforcement.
With helix wrapped around the outside diameter of hose, a "bearing" surface is created which makes it easy to drag hose across concrete and other rough surfaces.

Series 1180 Urethane Hose is much lighter than conventional suction hoses. It is very flexible and easy to handle. This hose maintains its flexibility at sub-zero temperatures which adds to its versatility.

Construction: Clear urethane tube; white PVC helix cover
Temperature Range: –4° to +150°F

HIGH PERFORMANCE HOSE

Part Number	Inside Diameter	Outside Diameter	Bend Radius	Working PSI at 72°
1180-24	1½″	1.85	3.8″	30
1180-32	2″	2.50	5.5″	25
1180-40	2½″	3.00	7.0″	20
1180-48	3″	3.60	8.0″	20

Sold in 25 foot sections

Vacuum Loader Hose

- FDA approved for food service
- Tough, yet very flexible
- Abrasion resistant
- Smooth bore - low friction loss
- Clear for visual inspection
- Temperature range:
  –4° to 150°F (–20° to 66°C) - static conditions
  14° to 104°F (–10° to 40°C) - dynamic conditions

Sold in 25 foot sections

Sizes up to and including 2½" ship UPS, anything larger goes LTL

Part Number	Inside Diameter	Vacuum Rating At 68°F Hg	Minimum Bend Radius	O.D. Size	Max. W.P. At 68°F	Weight Lbs/Ft
1175-16	1"	28"	3"	1¼"	60 PSI	.19
1175-20	1¼"	28"	3"	1½"	50 PSI	.29
1175-24	1½"	28"	3"	1⅞"	50 PSI	.34
1175-28	1¾"	28"	3½"	2⅛"	45 PSI	.40
1175-32	2"	28"	4"	2 13/16"	45 PSI	.50
1175-35	2 3/16"	28"	4"	2 9/16"	40 PSI	.57
1175-36	2¼"	28"	5"	2 21/32"	40 PSI	.63
1175-40	2½"	28"	6"	2 29/32"	40 PSI	.77
1175-48	3"	28"	8"	3½"	35 PSI	1.02
1175-64	4"	28"	10"	4⅝"	35 PSI	1.64

VACUUM LOADER HOSE

Vacuum Grounded Loader Hose

- Grounded safety
- Static ground wire - full length
- Smooth bore, very flexible
- For pellets, powders & granules
- Static conditions: –4°F to 150°F
- Dynamic conditions: 14°F to 104°F
- Choose cut length or full roll

Sold in 25 foot sections (except as noted*)

VACUUM GROUNDED

Lightweight, Flexible Economy Style - Caution: Not for use with high-abrasive applications

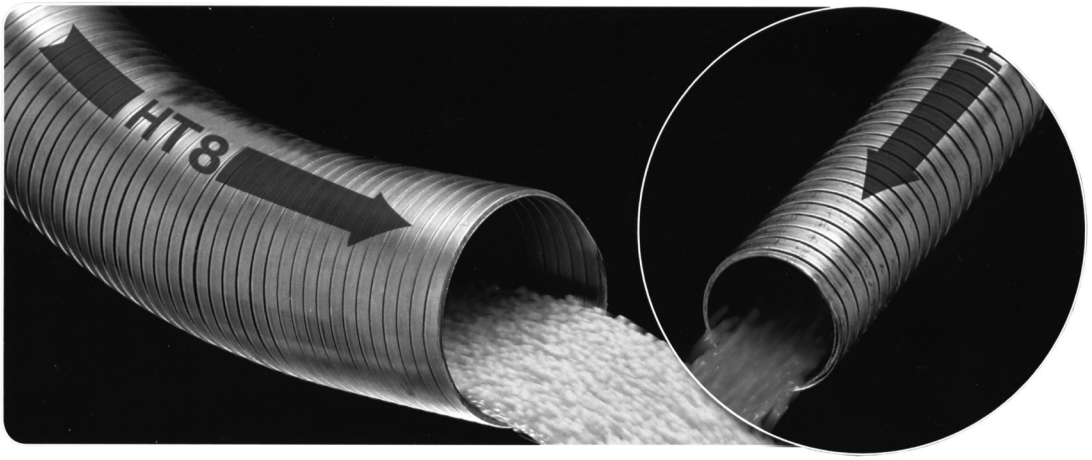
Part Number	Inside Diameter	Vacuum Rating At 68°F Hg	Minimum Bend Radius	Max. W.P. At 68°F
1175G24	1½"	28"	3.2"	50 PSI
1175G28	45MM (1¾")	28"	3.2"	40 PSI
1175G32	2"	28"	3.2"	40 PSI
1175G40	2½"	28"	4.5"	35 PSI

Heavy, More Durable Style

Part Number	Inside Diameter	Vacuum Rating At 68°F Hg	Minimum Bend Radius	Max. W.P. At 68°F
H1175G20	1¼"	28"	5"	50
H1175G24	1½"	28"	5"	50
H1175G28 *	1¾"	28"	5"	45
H1175G32	2"	28"	5"	40
H1175G40	2½"	28"	6"	40

* 60 foot section

Metal Loader Hose



HT5000 Interlocked Metal Hose combines the Hose Tec® single-strip interlocking construction with a smooth liner, providing a flexible metal hose that resists material buildup and internal abrasion. Materials flow smoothly in direction shown by arrows.

Construction

- An armor strip is combined with a strip of liner material and formed to create a lined, flexible, interlocked metal hose that offers superior strength and abrasion-resistance.

Applications

- Railcar offloading
- Pneumatic dry bulk unloading of grains, pellets, powders and dry chemicals
- Ideal hose for general bulk unloading applications
- Transfer of hot materials (not for hot tar or asphalt)
- Bulk unloading of highly abrasive materials
- Plastic pellet transfer

Features

- Flow indication arrows are provided on each length
- Stainless steel liner provides additional strength and greater resistance to abrasion
- Smooth liner reduces material degradation and improves unloading time
- Provides maximum flow rates for pneumatic conveying applications
- Available in standard 25' lengths

Maximum Service Temperature

- Series 300 stainless steel: up to 1500°F

METAL LOADER HOSE

Part Number	Description
HTSS150	1½" Metal Vacuum Loader Hose
HTSS175	1¾" Metal Vacuum Loader Hose
HTSS200	2" Metal Vacuum Loader Hose
HTSS225	2¼" Metal Vacuum Loader Hose
HTSS250	2½" Metal Vacuum Loader Hose
HTSS300	3" Metal Vacuum Loader Hose
HTSS350	3½" Metal Vacuum Loader Hose
HTSS400	4" Metal Vacuum Loader Hose
HTSS500	5" Metal Vacuum Loader Hose
HTSS600	6" Metal Vacuum Loader Hose

Oetiker 1 & 2 Ear Clamps

- No retightening needed
- Install quickly
- Allows tight installations
- No clamp creeping

EAR CLAMPS

1-Ear Clamps
smaller range,
thinner
Low price!!

2-Ear Clamps
large range,
thicker
Low price!

1 Ear Clamp

*100 pieces per bag

Zinc Plated Part Number	Stainless Steel Part Number	Clamp Range (mm) Closed – Open	Clamp Range (inches) Closed – Open
EC105	ECS105	8.9 – 10.5	0.350 – 0.413
EC113	ECS113	9.7 – 11.3	0.382 – 0.445
EC123	ECS123	10.4 – 12.3	0.409 – 0.484
EC133	ECS133	11.4 – 13.3	0.449 – 0.524
EC145	ECS145	12.6 – 14.5	0.496 – 0.571
EC157	ECS157	13.5 – 15.7	0.531 – 0.618
EC170	ECS170	15.1 – 17.0	0.594 – 0.669
EC185	ECS185	15.7 – 18.5	0.618 – 0.728
EC198	ECS198	17.0 – 19.8	0.669 – 0.780
EC210	ECS210	18.2 – 21.0	0.717 – 0.827
EC226	ECS226	19.8 – 22.6	0.780 – 0.890
EC241	ECS241	21.3 – 24.1	0.839 – 0.949
EC256	ECS256	22.8 – 25.6	0.898 – 1.008
EC271	ECS271	24.0 – 27.1	0.945 – 1.067
EC301	ECS301	27.0 – 30.1	1.063 – 1.185
EC331	ECS331	30.0 – 33.1	1.181 – 1.303
EC361	ECS361	33.0 – 36.1	1.299 – 1.421
EC381	ECS381	35.0 – 38.1	1.378 – 1.500

2 Ear Clamp

*100 pieces per bag

Zinc Plated Part Number	Stainless Steel Part Number	Clamp Range (mm) Closed – Open	Clamp Range (inches) Closed – Open
EC0709	ECS0709	7.0 – 9.0	0.276 – 0.354
EC0811	ECS0811	8.1 – 11.0 8.0 – 11.0	0.319 – 0.433 0.315 – 0.433
EC1113	ECS1113	10.8 – 13.0 11.0 – 13.0	0.425 – 0.512 0.433 – 0.512
EC1315	ECS1315	12.5 – 15.0	0.492 – 0.591
EC1517	ECS1517	14.0 – 17.0	0.551 – 0.669
EC1518	ECS1518	15.0 – 18.0	0.591 – 0.709
EC1720	ECS1720	16.2 – 20.0	0.638 – 0.787
EC1922	ECS1922	18.0 – 22.0 18.1 – 22.0	0.709 – 0.866 0.713 – 0.866
EC2023	ECS2023	19.0 – 23.0 19.1 – 23.0	0.748 – 0.906 0.752 – 0.906
EC2225	ECS2225	21.0 – 25.0 21.1 – 25.0	0.827 – 0.984 0.831 – 0.984
EC2327	ECS2327	22.5 – 27.0	0.886 – 1.063
EC2528	ECS2528	24.0 – 28.0	0.945 – 1.102
EC2731	ECS2731	26.3 – 31.0	1.035 – 1.220
EC3134	ECS3134	29.3 – 34.0	1.154 – 1.339
EC3437	ECS3437	32.0 – 37.0	1.260 – 1.457
EC3740	ECS3740	35.0 – 40.0	1.378 – 1.575

E

Stainless Hose Clamps

Tridon®

TRIDON®

Standard 100% Stainless Hose Clamps

SHC Clamps

- Unique interlocking design
- One-piece housing & band
- Slotted carbon chromate plate

Clamp Materials

- Band - 1/2″ 301 stainless
- Housing - 301 stainless

STAINLESS HOSE CLAMP

Part Number	Diameter Range	
	Min.	Max.
SHC6	3/8	7/8
SHC8	7/16	1
SHC10	1/2	1–1/16
SHC12	1/2	1–1/4
SHC16	11/16	1–1/2
SHC20	3/4	1–3/4
SHC24	1	2
SHC28	1–1/4	2–1/4
SHC32	1–1/2	2–1/2
SHC36	1–3/4	2–3/4
SHC40	2	3
SHC44	2–1/4	3–1/4
SHC48	2–1/2	3–1/2
SHC52	2–3/4	3–3/4
SHC56	3	4
SHC60	3–1/4	4–1/4
SHC64	2–1/2	4–1/2
SHC72	3	5
SHC80	3–1/2	5–1/2
SHC96	4–1/2	6–1/2
SHC104	5	7
SHC152	7–1/8	10
SHC188	12–1/4	12–1/4

Miniature Stainless Hose Clamps

MSC Clamps

- Easy to install in confined areas
- Hold tough in tight spots

Clamp Materials

- Band - 5/16″ 301 stainless
- Housing - 301 stainless
- Screw 1/4″ 410 stainless hex head

Part Number	Diameter Range	
	Min.	Max.
MSC04	1/4	5/8
MSC06	5/16	7/8
MSC08	3/8	1
MSC10	3/8	1–1/16
MSC12	1/2	1–1/4

MINI HOSE CLAMP

Lined Stainless Hose Clamps

LHC Clamps

- Use for soft hose of any type
- Use for all silicone hoses
- Liner prevents extrusion of thru screw notches

Clamp Materials

- Band - 5/16″ 301 stainless
- Housing - 301 stainless

Part Number	Diameter Range	
	Min.	Max.
LHC6	5/8	7/8
LHC8	5/8	1
LHC10	3/4	1-1/16
LHC12	7/8	1-1/4
LHC16	1	1-1/2
LHC20	1-1/8	1-3/4

LINED HOSE CLAMP

KURIYAMA OF AMERICA, INC.

KURI_CLAMP

Stainless Hose Clamps

Heavy-Duty Worm Gear

Stainless Steel Band & Housing with Carbon steel screw

General Applications:

- Small Diameter applications
- Air & water lines

Construction: Four-piece construction consisting of:

- 9/16" wide. 300 series satinless steel band
- Plated carbon steel hex screw with 5/16 head.
- 300 series stainless steel housing.

Part Number	Diameter Range	
	Min.	Max.
WHCCSHD06	7/16	25/32
WHCCSHD08	1/2	29/32
WHCCSHD10	9/16	1-1/16
WHCCSHD12	11/16	1-1/4
WHCCSHD20	13/16	1-3/4
WHCCSHD24	1-1/16	2
WHCCSHD28	1-5/16	2-1/4
WHCCSHD32	1-9/16	2-1/2
WHCCSHD36	1-13/16	2-3/4
WHCCSHD40	2-1/16	3
WHCCSHD44	2-5/16	3-1/4
WHCCSHD48	2-9/16	3-1/2
WHCCSHD104	4-1/8	7
WHCCSHD188	9-3/8	12-1/4

E

Mini Worm Gear

Stainless Steel Band & Housing with Carbon steel screw

General Applications:

- Small Diameter applications
- Air & water lines

Construction: Three-piece construction consisting of:

- 5/16" wide. 300 series stainless steel band
- Plated carbon steel hex screw with 1/4" head
- One-piece 300 series stainless steel housing

Part Number	Diameter Range	
	Min.	Max.
WHCMCS04	7/32	5/8
WHCMCS06	7/16	25/32
WHCMCS08	1/2	29/32
WHCMCS10	9/16	1-1/16
WHCMCS12	11/16	1-1.4

Stepless Ear Clamp

The term “stepless” refers to the absence of steps or gaps on the circumference of the clamp. The stepless design of the Stepless Ear Clamp provides uniform compression and a 360° seal. The unique “tongue-in-groove" design was developed to assure that the inner circumference is free of steps or gaps that could be detrimental to the sealing ability of the clamp.

The groove is extruded 1x material thickness on the outer surface and is approximately ⅓ the band width; the mating tongue provides a uniform inner circumference. During the clamp closing process, the tongue engagement increases in the groove, minimizing the reduced surface area, ensuring uniform compression or surface pressure over the full 360° of the assembled parts.

- Stainless steel band UNS S 30400 or Din 1.4301
- 360° stepless design - no steps or gaps on the inner circumference
- Narrow band, concentrated seal compression
- Smooth-edged band steel prevents damage to hose
- Lightweight
- Tamper detectable design

STEPLESS EAR CLAMP

Part Number	Size Ref. (mm)	Clamp Range (mm) Closed – Open	Clamp Range (inches) Closed – Open
SEC145	14.5	12.0 – 14.5	0.472 – 0.571
SEC153	15.3	12.8 – 15.3	0.504 – 0.602
SEC157	15.7	13.2 – 15.7	0.520 – 0.618
SEC162	16.2	13.7 – 16.2	0.539 – 0.638
SEC17	17.0	14.5 – 17.0	0.571 – 0.669
SEC185	18.5	15.3 – 18.5	0.602 – 0.728
SEC198	19.8	16.6 – 19.8	0.654 – 0.780
SEC21	21.0	17.8 – 21.0	0.701 – 0.827
SEC226	22.6	19.4 – 22.6	0.764 – 0.890
SEC235	23.5	20.3 – 23.5	0.799 – 0.925
SEC241	24.1	20.9 – 24.1	0.823 – 0.949
SEC256	25.6	22.4 – 25.6	0.882 – 1.008
SEC271	27.1	23.9 – 27.1	0.941 – 1.067

Service Kits - Zinc-Plated, 2-Ear Clamps

Kit number SK1098 - contains model 1098I pincers & clamps listed below. Low cost - handy!

SK-1098

Kits contain 15 of each of the following zinc-plated 2-Ear Clamps: 5⁄16″, 7⁄16″, 1⁄2″, 9⁄16″, 5⁄8″, 3⁄4″, 7⁄8″, 15⁄16″, & 1″

PINCERS & SERVICE KITS

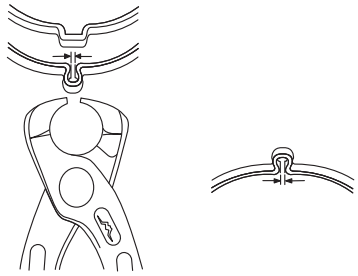
Great for confined areas!

Model Number 1098-I
Oetiker Straight Jaw Pincers

Model Number 1099-I
Oetiker Side Jaw Pincers

E

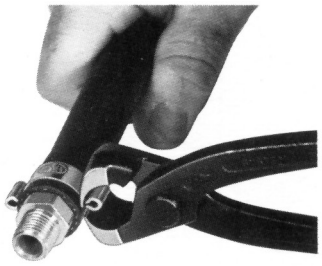
Installation:



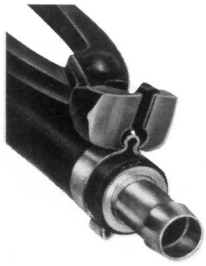
When installing Oetiker Ear Type Clamps, please note that each ear must be crimped as recommended to obtain a proper seal. An incorrectly made installation may impair the best connection. If a clamp ear can be closed all the way, the clamp size selected is probably too big and the next smaller clamp should be ordered.

How to Apply:

Position clamp on hose as illustrated.

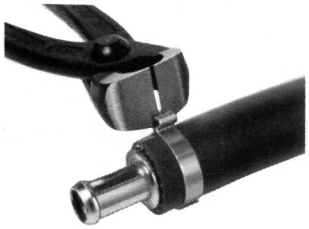


Give each ear a firm squeeze with your Oetiker Pincers.



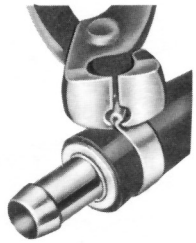
Where access to ear is difficult use Oetiker Side Jaw Pincers #1099-I.

How to



Grip the outer edge of ear firmly and cut through it with either pincers.

Cut the ear by taking several small bites at its base with either pincers.



Then grip ear firmly and twist it off.

T-Clips

T-Clips provide a quick, adaptable and inexpensive answer to securing, attaching and routing of tubes, wires, hose and pipe.

T-Clips provide an exact uniform spacing to dual runs and can be mounted on walls, cabinets, boards, enclosures and bulkheads. T-Clips are available in a wide range of sizes.

A countersunk centerhole is provided in each T-Clip for the fastener of your choice.

1. Place open sides of T-Clip between tubes.

2. Snap T-Clip onto tubes with a quick quarter turn.

3. T-Clip is ready for mounting with tubes held in uniform spacing.

T-Clip Number	Spacer Number	Fits Hose O.D.	
		From	To
T4	–	5/32	1/4
T6	–	1/4	5/16
T8	D8	5/16	3/8
T10	D10	3/8	1/2
T12	D12	1/2	5/8
T15	D15	5/8	3/4
T18	D18	3/4	7/8
T22	D22	7/8	1″

T-CLIPS

Heli-Tube® Hose & Wire Wrap

Heli-Tube®

Spirally Cut Wrap

- Protects hose from abrasion
- Can be applied with hose in place
- U.V. resistant
- Low cost, great value!

Specifications:

- Temperature range: –105°F to +190°F
- Abrasion resistance – M6 loss per M cycles: 20
- Di-Electric constant T-D-50: 2.6
- Tensile strength @ 73°F-D-412-51T PSI: 1800
- Specific gravity - D792-50: 0.93
- Material: polyethylene

HELI-TUBE HOSE & WIRE WRAP

Part Number	Size Range Dia.*	Nom. O.D.	Wall	Spool Length
HT18C	1/16 to 1/2″	1/8″	.032	100′
HT316C	1/4 to 1 1/2″	3/16″	.031	100′
HT14C2	3/16 to 2″	1/4″	.035	100′
HT38C	5/16 to 3″	3/8″	.052	100′
HT34C	3/4 to 5″	3/4″	.065	100′
HT1C	1 to 7″	1″	.095	100′

*Sizes are tight - order larger than actual size needed.

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Staticide™

General Purpose Staticide® Outperforms! For Non-Porous Surfaces

Staticide is non-toxic, nonflammable, non-staining, completely biodegradable and safe to use. It's the key component in any total environmental static control program.

When properly applied, Staticide complies with or exceeds all electrostatic decay criteria established for antistatic performance as set forth by NFPA and MIL B-81705B, when tested in accordance with Federal Test Standard 101B Method 4046.

Solves static-related problems such as:

- The attraction of dirt, dust and bacteria to all environmental surfaces, products and product packaging
- Charge generation on surfaces of tote boxes and carriers used to process and store electronic components
- Damage or destruction of sensitive electronic components and subassemblies during their manufacture, shipping or receiving
- Data processing "glitches"... memory loss, data errors, paper jams

General Purpose Staticide is packaged in ready-to-use quart bottles with trigger
sprayers or in easy-to-pour gallon containers.

Please call DME for available in bulk quantities.

Staticide®
Specialists in Static Control

General Purpose Staticide Quarts w/ Sprayer
Part Number
ACL2003
General Purpose Staticide Gallons
Part Number
ACL2001

STATICIDE

Static Charge Measuring Device

Measures Static Charge Instantly, Reliably and Economically!

- Measures static charges from zero to 30,000 volts
- Convenient pocket size
- Designed for close-in repetitive readings
- Uses standard 9 volt battery
- Battery test feature
- Low drift
- Repeatability ± 1%, accuracy ± 10%
- One-year warranty on parts and labor

Features a unique "quick zero" function which instantly rezeroes the instrument and provides ground compensation for the user. Size: 4–3⁄8" × 2–5⁄8" × I–5⁄16".

Static Charge Measuring Device - Part Number ACL300B
Protective Carrying Case - Part Number ACLCS13

STATIC CHARGE MEASURING DEVICE

Digital Static Charge Meter

ESD Digital Static Meter

Industrial Digital Electrostatic Meter

Accurate, sensitive and responsive, the Model 7905 Digital Static Charge Meter allows easy one-hand static measurements. It indicates the surface voltage and polarity on objects up to ±20 kV at a spacing of one inch (25mm). The Digital Static Meter features a push button "hold" for readings and automatic "power off."

Designed for use by industrial, maintenance, electrical and other field personnel, the 7905 has a rugged, hard shell plastic case and a compact design. With low drift and trouble-free operation, maintenance consists of periodic replacement of its 9 volt battery.

The 7905's digital readout instantly indicates the magnitude and polarity of any static charge. It's easy to locate and monitor potential trouble spots, position static elimination equipment, and evaluate the effectiveness of existing systems.

Part Number #7905 (unit includes rugged hard shell carrying case and battery)

Specifications

Range: 0 to ± 20 kV at 1"

Distance: The meter reads true at 1" from thick the test surface

Accuracy: ± 10% of full scale (113 grams)

Power: (1) 9 volt battery (Eveready 216)

Size: 4.14" (10.6cm) long, 2.4" (6.1cm) wide, 1" (2.5cm)

Color: black

Weight: Approximately 1/4 pound

DIGITAL STATIC CHARGE METER

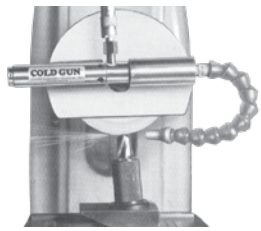
Cold Air Gun

F

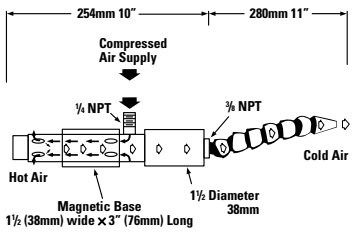
Replace messy mist systems - improve dry machining with clean, cold air! Clean, cold air at 50°F below supply air temperature, with no moving parts!

Features
- Low cost
- Compact
- No moving parts
- Maintenance-free
- Quiet
- Magnetic base

Use For
- Cooling parts
- Cooling core pins
- Setting hot melts
- Minimize heat sinks
- Stop drooling or freeze-off a nozzle



COLD AIR GUN



How the Cold Gun Works:

The Cold Gun Air Coolant System incorporates a vortex tube to convert an ordinary supply of compressed air into two low pressure streams: one hot and one cold. The hot air stream is muffled and discharged through the hot air exhaust. The cold air is muffled and discharged through the flexible hose, which directs it to the point of use. The magnetic base provide easy mounting and portability.

Ordering Information

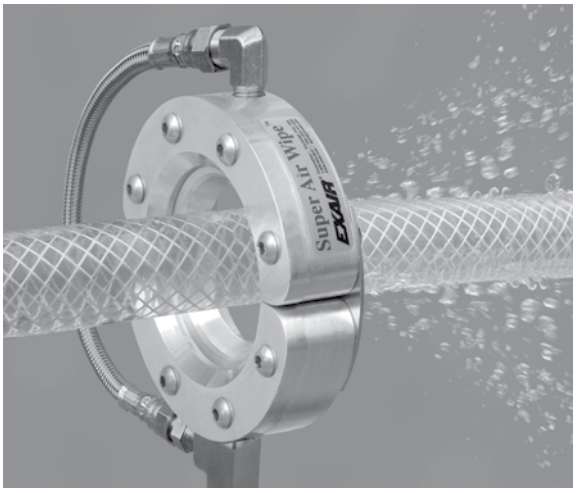
Cold Gun Kits include: Cold Gun with magnetic base, pneumatic filter with manual drain, single or double point flexible hose kit.

~~CG5215~~ ~~Single Point Cold Gun Kit~~

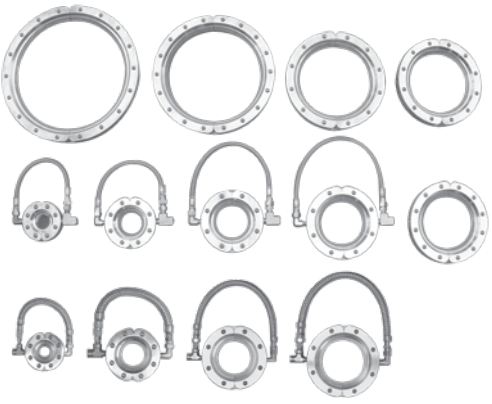
Super Air Wipes

Blow off, dry, clean and cool pipe, cable, extruded shapes and hose!
Split design requires no threading!

EXAIR's Super Air Wipe provides a uniform 360° airstream that is ideal for blowoff, drying, cleaning and cooling of pipe, cable, extruded shapes, hose and more. The split design offers easy clamping around the surface of the material moving through it, eliminating the need for threading. All models include stainless steel screws and shims. Stainless steel wire braided hose is also included on sizes up to 4" (102mm) for added corrosion and heat resistance. Aluminum models are rated for temperatures up to 400°F (204°C) and stainless steel models for temperatures up to 800°F (427°C).



SUPER AIR WIPES



Air Wipe Performance

80 PSIG (5.5 BAR)	Air Consumption		Sound Level @ 3' (.91m)
Model	SCFM	SLPM	dBA
2401, 2401SS	19.1	541	76
2402, 2402SS	29.5	835	77
2403, 2403SS	39.8	1127	79
2404, 2404SS	50.2	1422	81
2405	60.6	1716	82
2406	71.0	2010	84
2407	81.3	2302	85
2409	102.1	2891	87
2411	122.8	3477	89

Advantages

- Quiet
- Low air consumption
- Uniform airflow across the entire diameter
- Stainless steel hardware resists corrosion
- Aluminum models for temperatures up to 400°F (204°C); stainless steel models for temperatures to 800°F (427°C)
- Stainless steel hose supplied on sizes up to 4" (102mm)
- No electricity, no moving parts
- Non-contact - no wiper blade
- Split design - compact, rugged, easy to install
- Lightweight, low profile
- Tapped holes for mounting
- Variable force and flow
- Meets OSHA maximum dead-end pressure and noise requirements

The Aluminum Super Air Wipe is available in 9 sizes from stock. The Stainless Steel Super Air Wipe is available in 4 sizes from stock. Other sizes are available by special order.

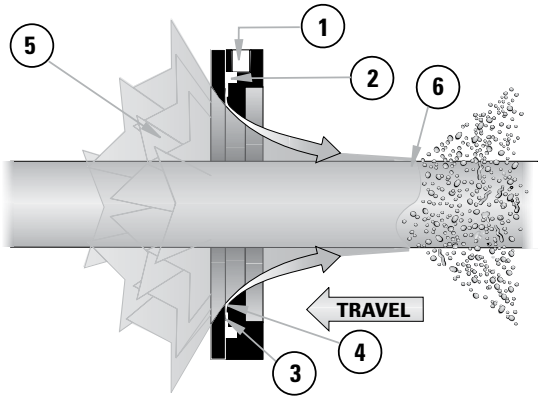
Applications

- Drying after wash, cleaning, plating or coating
- Blow off dust and contaminants
- Cool hot extruded shapes
- Uniformly wipe surfaces
- Eliminate solution carryover - no cross contamination
- Remove excess coatings, water and oil
- Minimize solution loss due to drag-out
- Dry screen printed and ink jet surfaces
- Ideal for pipe, cable, extrusions, wire, rod and hose

SUPER AIR WIPES

How The Air Wipe Works

Compressed air flows through an inlet (1) of the Air Wipe into an annular chamber (2). It is then throttled through a small ring nozzle (3) at high velocity. This primary airstream adheres to the Coanda effect (4), which directs it down the angled surface of the Air Wipe. A low pressure area is created at the center (5) inducing a high volume flow of surrounding air into the primary airstream. As the airflow leaves the Air Wipe, it creates a conical 360° ring of air that attaches itself to the surface of the material running through it (6), uniformly wiping the entire surface with the high velocity airflow.



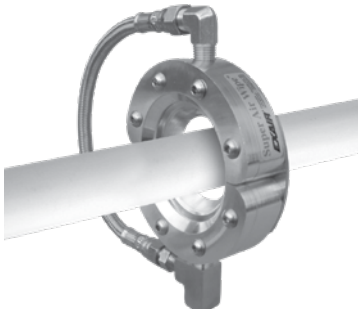
Super Air Wipe Systems

Super Air Wipe	
Model Number	**Description**
2401	1″ (25mm)
2402	2″ (51mm)
2403	3″ (76mm)
2404	4″ (102mm)
2405	5″ (127mm)
2406	6″ (152mm)
2407	7″ (178mm)
2409	9″ (229mm)
2411	11″ (279mm)

Super Air Wipe Kit	
Kit includes Super Air Wipe, filter separator, pressure regulator and shim set	
Model Number	**Description**
2451	1″ (25mm)
2452	2″ (51mm)
2453	3″ (76mm)
2454	4″ (102mm)
2455	5″ (127mm)
2456	6″ (152mm)
2457	7″ (178mm)
2459	9″ (229mm)
2461	11″ (279mm)

Super Air Wipe Is Easy To Use

There is a ¼" NPT female inlet on each half of the Super Air Wipe on sizes up to 7″ (178mm). Larger sizes include two ¼" NPT female inlets on each half in order to maintain proper air volume and performance. Aluminum Super Air Wipes up to 4″ (102mm) include a brass tee that supplies one half directly and a stainless steel wire braided coupling hose rated at 400°F (204°C) to supply the other half. Stainless steel Super Air Wipes up to 4″ (102mm) include a stainless steel tee and a stainless steel wire braided coupling hose rated at 800°F (427°C). Larger sizes should be piped directly.



The Model 2402 2″ (51mm) Super Air Wipe cools PVC pipe as it is ejected from an extruder.

Stainless Steel Super Air Wipe	
Model Number	**Description**
2401SS	1″ (25mm)
2402SS	2″ (51mm)
2403SS	3″ (76mm)
2404SS	4″ (102mm)

Stainless Steel Super Air Wipe Kit	
Kit includes Super Air Wipe, filter separator, pressure regulator and shim set	
Model Number	**Description**
2451SS	1″ (25mm)
2452SS	2″ (51mm)
2453SS	3″ (76mm)
2454SS	4″ (102mm)

Super Air Wipe Shim Set	
Shim Sets include (2) .002″ (.05mm) thick stainless steel shim	
Model Number	**Description**
2351SS	1″ (25mm)
2352SS	2″ (51mm)
2353SS	3″ (76mm)
2354SS	4″ (102mm)
2355SS	5″ (127mm)
2356SS	6″ (152mm)
2357SS	7″ (178mm)
2359SS	9″ (229mm)
2361SS	11″ (279mm)

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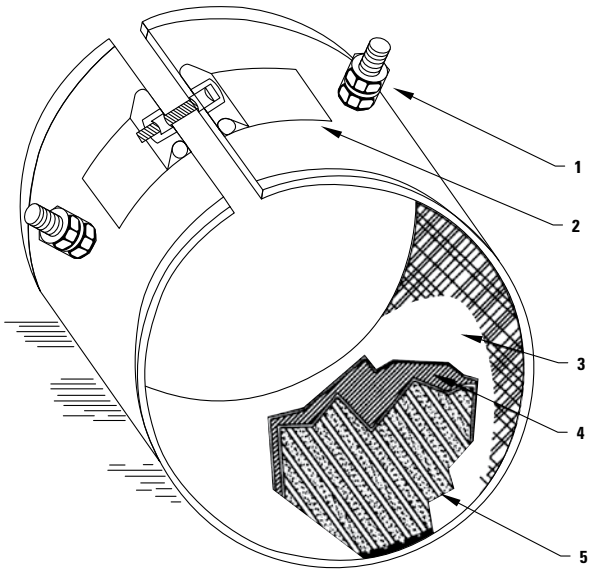
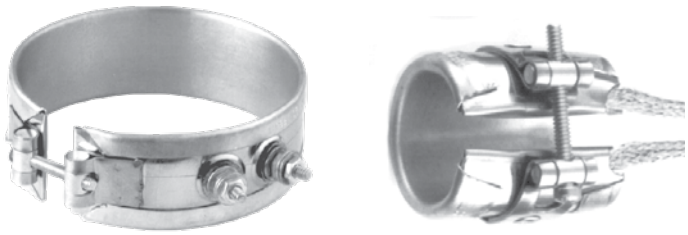
Mica Insulated Heater Band

Time-tested materials & manufacturing techniques make this heater a proven, economical, reliable performer.
In applications where a flat surface requires uniform heating, this heater has no equal.





MICA HEATER BAND

Material List

1) Stainless steel post terminals are supplied with nuts and washers. Connections are attached to the oversized terminal head for superior electrical contact. Many other terminations and leads available.
2) Stainless steel welded on clamps have precision drilled and tapped barrel nuts and are supplied with high torque 10–32 socket head cap screws. These are used for firm clamping and excellent heat transfer.
3) The two-piece sheath is composed of a rust-resistant, matte finish, zinc-coated bottom plate and galvanized top plate. This construction provides excellent heat emissivity and corrosion resistance.
4) Mica provides complete electrical insulation of the heater case from the steel case, while providing maximum heat transfer.
5) Flat nickel-alloy ribbon wire provides the highest heating area possible. Each heater is engineered for wire size and pitch to provide the highest efficiency, while minimizing winding temperature.

Maximum Recommended Watts

When heating objects to higher temperatures, lower watt density heater bands should be used. This will help to prevent overheating and provide a longer heater band life.

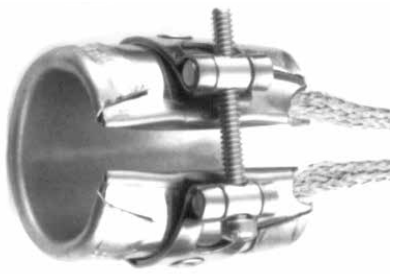
Watt density is the total wattage of the heater band divided by the heated surface area of the heater band. Use this table below to help determine the recommended watt density for the application. Lower watt densities can be achieved by operating a 240 volt heater band on 120 volts. In doing this the wattage and watt density are derated by a factor of 4.

- One piece and 2-piece bands
- Fiberglass leads, stainless leads and post terminals
- 120 and 240 volt styles
- Uniform heat, high watt density
- Many wattage options
- High-quality sheet mica construction
- Many sizes in stock ready to ship
- Custom bands available in rush and standard delivery option

Operating Temp.	Maximum Recommended Watts Per Sq. In.
300°F (149°C)	40
400°F (204°C)	30
500°F (260°C)	21
600°F (316°C)	12
700°F (371°C)	10
800°F (427°C)	10
900°F (482°C)	10

Metric Heater Bands

- Low cost, quality bands
- For other sizes, please see Standard Mica Heater Band pages that follow
- 12" stainless steel leads



METRIC HEATER BAND

Metric (mm)		U.S. (in)		Volts	Watts	Part Number
Dia.	Width	Dia.	Width			
25	25	.984	.984	240	85	**MHB2525-85**
25	35	.984	1.378	240	125	**MHB2535-125**
30	30	1.181	1.181	240	135	**MHB3030-135**
30	38	1.181	1.496	240	185	**MHB3038-185**
32	25	1.260	.984	240	115	**MHB3225-115**
32	30	1.260	1.181	240	145	**MHB3230-145**
32	38	1.260	1.496	240	195	**MHB3238-195**
32	50	1.260	1.969	240	250	**MHB3250-250**
35	20	1.378	.787	240	95	**MHB3520-95**
35	25	1.378	.984	240	125	**MHB3525-125**
35	30	1.378	1.181	240	155	**MHB3530-155**
35	35	1.378	1.378	240	180	**MHB3535-180**
35	38	1.378	1.496	240	210	**MHB3538-210**
35	50	1.378	1.969	240	265	**MHB3550-265**
38	30	1.496	1.181	240	170	**MHB3830-170**
38	35	1.496	1.378	240	200	**MHB3835-200**
38	50	1.496	1.969	240	300	**MHB3850-300**
40	25	1.575	.984	240	160	**MHB4025-160**
40	30	1.575	1.181	240	200	**MHB4030-200**
40	38	1.575	1.496	240	270	**MHB4038-270**
40	50	1.575	1.969	240	345	**MHB4050-345**

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Heat Transfer Compound

HEAT TRANSFER COMPOUND

- Transfers heat away from electronic devices
- High thermal conductivity
- Temperature range to 400°F

Highly effective when used with rectifiers, ignition control modules, voltage regulators and other heat generating electronic devices.

Part Number 49643 - 5 oz. tube

Nozzle Bands

- Low cost, quality bands
- For other sizes, please see Standard Mica Heater Band pages that follow

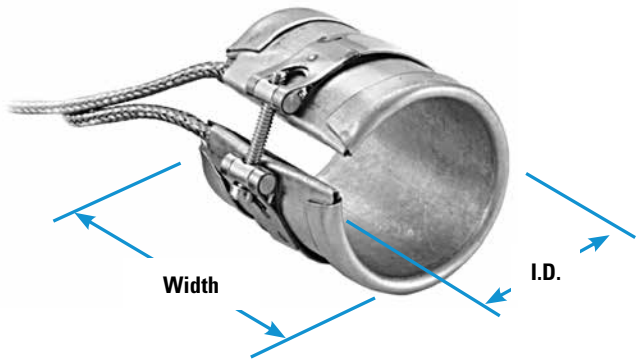
Inside Diameter	Width	Volts	Watts	Part Number	Reference Number	Lead Type*
1" Diameter	1"	120	100	**HB1-101012-100**	BN1010A1	FG
	1"	240	100	**HB1-101024-100**	BN1010A2	FG
	1"	120	125	**HB1-101012-125S**	–	SS
	1"	240	125	**HB1-101024-125S**	–	SS
	1"	120	125	**HB1-101012-125**	–	FG
	1"	240	125	**HB1-101024-125**	–	FG
	1½"	120	150	**HB1-101512-150**	–	FG
	1½"	240	150	**HB1-101524-150**	BN1015A2	FG
	2"	120	200	**HB1-102012-200**	BN1020A1	FG
	2"	240	200	**HB1-102024-200**	BN1020A2	FG
	3"	120	300	**HB1-103012-300**	BN1030A1	FG
	3"	240	300	**HB1-103024-300**	BN1030A2	FG
1½" Diameter	1"	120	150	**HB1-151012-150**	BN1510A1	FG
	1"	240	150	**HB1-151024-150**	BN1510A2	FG
	1½"	120	275	**HB1-151512-275**	–	FG
	1½"	240	275	**HB1-151524-275**	–	FG
	1½"	120	275	**HB1-151512-275S**	–	SS
	1½"	240	275	**HB1-151524-275S**	–	SS
	2"	120	300	**HB1-152012-300**	BN1520A1	FG
	2"	240	300	**HB1-152024-300**	BN1520A2	FG
	2"	120	300	**HB1-152012-300S**	BN1520B1	SS
	2"	240	300	**HB1-152024-300S**	BN1520B2	SS
	3"	120	450	**HB1-153012-450**	BN1530A1	FG
	3"	240	450	**HB1-153024-450**	BN1530A2	FG
	4"	120	550	**HB1-154012-550**	–	FG
	4"	240	550	**HB1-154024-550**	–	FG
	5"	120	700	**HB1-155012-700**	–	FG
	5"	240	700	**HB1-155024-700**	–	FG
1¾" Dia.	1½"	120	250	**HB1-1751512-250**	BN1715A1	FG
	1½"	240	250	**HB1-1751524-250**	BN1715A2	FG
2" Dia.	1"	120	200	**HB1-201012-200**	BN2010A1	FG
	1"	240	200	**HB1-201024-200**	BN2010A2	FG

NOZZLE BANDS

***12" lead lengths standard**
FG = fiberglass
SS = stainless steel

All Nozzle Bands Include 12" Stainless Steel Braided Leads!!!

Inside Diameter	Width	Watts	Volts	Part Number
¾"	1"	100	240	**B029586**
1"	1½"	150	240	**B016886**
	1½"	200	240	**B028956**
	2"	200	240	**B020010**
	2"	150	120	**B031793**
	3"	300	240	**B029537**
1¼"	1"	150	240	**B028271**
	1½"	200	240	**B028272**
	2"	250	240	**B029837**
1½"	1"	150	240	**B017022**
	1¼"	250	240	**B034406**
	2"	350	240	**B011941**
	2"	350	120	**B030459**
	2"	400	240	**B033555**
	2½"	300	240	**B029521**
	4"	500	240	**B012933**
1⅝"	1½"	300	240	**B034363**
1¾"	1"	200	240	**B013847**
	1½"	250	240	**B029274**
	1½"	300	240	**B034459**
	2"	300	240	**B029541**
	2"	300	120	**B033605**
	3"	450	240	**B031023**
1⅞"	2"	350	240	**B030666**
2"	1"	200	240	**B029542**
	1½"	325	240	**B029050**
	1½"	325	120	**B018274**
	2"	350	240	**B030113**
	2"	350	120	**B030885**
	2"	400	240	**B035725**
2½"	1"	150	240	**B037454**
	1½"	300	240	**B035329**
	1½"	420	120	**B042475**



NOZZLE BANDS

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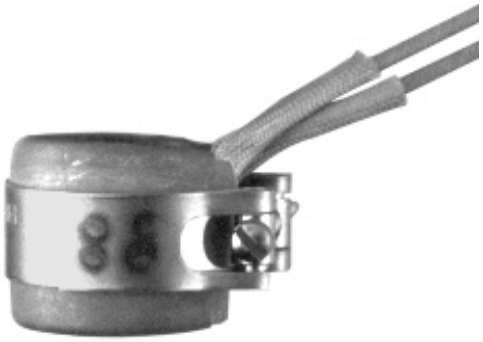
Standard Mica Heater Bands

- High-quality sheet mica construction
- Uniform heat, high watt density
- 12″ high temperature leads with protective sleeves are standard

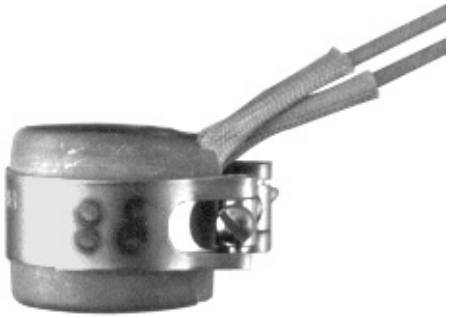


STANDARD MICA HEATER BANDS

I.D. × Width	Volts	Watts	12″ Flexible Leads Unless Noted	Part Number
¾ × 1	120	75		**SHB121612-75**
	240	75		**SHB121624-75**
¾ × 1½	240	100		**SHB122424-100**
⅞ × 1	120	80		**SHB141612-80**
	240	80		**SHB141624-80**
⅞ × 1¼	120	90		**SHB142012-90**
	240	90		**SHB142024-90**
⅞ × 1½	120	100		**SHB142412-100**
	240	100		**SHB142424-100**
1 × 1	120	100		**HB1-101012-100**
	240	100		**HB1-101024-100**
	120	100	10″ Stainless	**SHB161612-100S**
	240	100	10″ Stainless	**SHB161624-100S**
	120	125	10″ Stainless	**HB1-101012-125S**
	240	125	10″ Stainless	**HB1-101024-125S**
	120	125		**HB1-101012-125**
	240	125		**HB1-101024-125**
1 × 1½	120	150		**HB1-101512-150**
	240	150		**HB1-101524-150**
1 × 2	120	200		**HB1-102012-200**
	240	200		**HB1-102024-200**
1 × 2½	120	250		**SHB164012-250**
	240	250		**SHB164024-250**
	240	250	34″ Stainless	**SHB164024-250S**
1 × 3	120	300		**HB1-103012-300**
	240	300		**HB1-103024-300**
1 × 4	120	400		**SHB166412-400**
	240	400		**SHB166424-400**
1 × 5	120	500		**SHB168012-500**
	240	500		**SHB168024-500**

Standard Mica Heater Bands

I.D. × Width	Volts	Watts	12″ Flexible Leads Unless Noted	Part Number
1¼ × ⅝	120	100	10″ Stainless	**SHB201012-100S**
1¼ × 1	120	125		**SHB201612-125**
	240	125		**SHB201624-125**
1¼ × 1½	120	200		**SHB202412-200**
	240	200		**SHB202424-200**
1¼ × 1¾	240	275		**SHB202824-275**
1¼ × 2	120	250		**SHB203212-250**
	240	250		**SHB203224-250**
1¼ × 3	120	400		**SHB204812-400**
	240	400		**SHB204824-400**
1¼ × 3½	240	300		**SHB205624-300**
1⅜ × 1	120	150		**SHB221612-150**
	240	150		**SHB221624-150**
1⅜ × 1½	120	200		**SHB222012-200**
	240	200		**SHB222024-200**
1⅜ × 2	120	275		**SHB223212-275**
	240	275		**SHB223224-275**
1⅜ × 3½	240	250		**SHB225624-250**
1½ × ½	120	100		**SHB240812-100**
	240	100		**SHB240824-100**
1½ × ⅝	120	100		**SHB241012-100**
	240	100		**SHB241024-100**
1½ × ¾	120	100		**SHB241212-100**
	240	100		**SHB241224-150**
1½ × 1	120	150		**HB1-151012-150**
	240	150		**HB1-151024-150**
	120/240	150		**SHB24161224-150**
1½ × 1½	230	200		**SHB242423-200**
	240	200	24″ SS Braid	**B041830**
	240	250	24″ Leads	**B021993**
	240	250		**SHB242424-250**
	120	275		**HB1-151512-275**
	240	275		**HB1-151524-275**
	240	275	24″ SS Braid	**B017026**
	240	275	34″ Leads	**SHB242424-275-34**
	480	275	12″ SS Braid	**B038203**
	120/240	275		**SHB24241224275**
	120	275	34″ Leads	**SHB242412275-34**
	240	275	34″ Leads	**SHB242424-275-34**



STANDARD MICA HEATER BANDS

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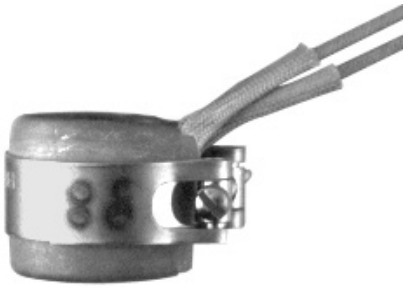
Standard Mica Heater Bands

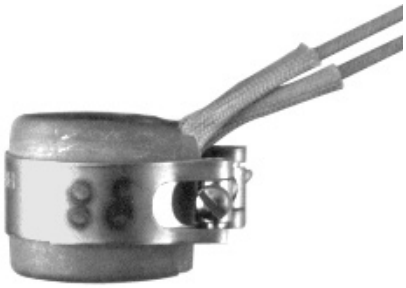
I.D. × Width	Volts	Watts	12″ Flexible Leads Unless Noted	Part Number
1½ × 1½	120	275	10″ Stainless	**HB1-151512-275S**
	240	275	10″ Stainless	**HB1-151524-275S**
	120	275	Post	**SHB242412-275P**
	240	275	Post	**SHB242424-275P**
	120	275	With TC Hole	**SHB242412275TC**
	240	275	With TC Hole	**SHB242424275TC**
	230	275	Type A 54″	**50387B**
	240	300	10″ Stainless	**SHB242424-300S**
1½ × 1¾	120	285		**SHB242812-285**
	240	285		**SHB242824-285**
1½ × 2	120	300		**HB1-152012-300**
	240	300		**HB1-152024-300**
	120	300	10″ Stainless	**HB1-152012-300S**
	240	300	10″ Stainless	**HB1-152024-300S**
1½ × 2½	120	400		**SHB244012-400**
	240	400		**SHB244024-400**
	240	400	34″ Stainless	**SHB244024-400S**
1½ × 3	120	450	10″ Stainless	**SHB244812-450S**
	240	450	10″ Stainless	**SHB244824-450S**
	120	450		**HB1-153012-450**
	240	450		**HB1-153024-450**
	120/240	450	12″ Stainless	**SHB244824-450S**
1½ × 3½	120	525		**SHB245612-525**
	240	525		**SHB245624-525**
1½ × 4	120	550		**HB1-154012-550**
	240	550		**HB1-154024-550**
	120/240	550		**SHB24641224550**
1½ × 5	120	700		**HB1-155012-700**
	240	700		**HB1-155024-700**
	240	700	12″ SS Braid	**B044624**
1½ × 6	240	700	24″ SS Braid	**B027067**
	240	850		**SHB249624-850**
1½ × 7	240	800	24″ SS Braid	**B027068**
1⅝ × 3	240	300	12″ SS Braid	**B036062**
1¾ × 1	120	175		**SHB281612-175**
	240	175		**SHB281624-175**



STANDARD MICA HEATER BANDS

Standard Mica Heater Bands

I.D. × Width	Volts	Watts	12″ Flexible Leads Unless Noted	Part Number
1¾ × 1½	120	250		**HB1-1751512-250**
	240	250		**HB1-1751524-250**
1¾ × 1¾	240	350	24″ SS Braid	**B038843**
1¾ × 2	120	350		**SHB283212-350**
	240	350		**SHB283224-350**
1¾ × 2½	120	450		**SHB284012-450**
	240	450		**SHB284024-450**
1¾ × 3	120	500		**SHB284812-500**
	240	500		**SHB284824-500**
1¾ × 3½	120	500		**SHB285612-500**
	240	500		**SHB285624-500**
1¾ × 4	120	700		**SHB286412-700**
	240	700		**SHB286424-700**
1¾ × 5	240	900	34″ Stainless	**SHB288024-750S**
	120	900		**SHB288012-900**
	240	900		**SHB288024-900**
1¾ × 6	120	1000		**SHB289612-1000**
	240	1000		**SHB289624-1000**
1⅞ × 1	120	300	Post	**SHB301612-300P**
	240	300	Post	**SHB301624-300P**
2 × 1	120	200		**HB1-201012-200**
	240	200		**HB1-201024-200**
2 × 1⅜	240	300		**SHB322224-300**
2 × 1½	120	300		**SHB322412-300**
	240	300		**SHB322424-300**
	120/240	300		**SHB32241224300**
2 × 2	120	400		**SHB323212-400**
	240	400		**SHB323224-400**
2 × 2½	120	500		**SHB324012-500**
	240	500		**SHB324024-500**
2 × 3	120	600		**SHB324812-600**
	240	600		**SHB324824-600**
	240	675	12″ SS Braid	**B039887**
2 × 4	120	800		**SHB326412-800**
	240	800		**SHB326424-800**
2 × 5	120	900		**SHB328012-900**
	240	900		**SHB328024-900**
2 × 6	120	1200		**SHB329612-1200**
	240	1200		**SHB329624-1200**
2⅛ × 1	120	225		**SHB341612-225**
	240	225		**SHB341624-225**
2⅛ × 1½	120	300		**SHB342412-300**
	240	300		**SHB342424-300**
2⅛ × 2	120	400		**SHB343212-400**
	240	400		**SHB343224-400**



STANDARD MICA HEATER BANDS

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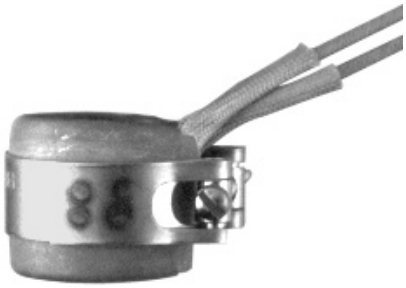
Standard Mica Heater Bands

I.D. × Width	Volts	Watts	12″ Flexible Leads Unless Noted	Part Number
2⅛ × 3	120	600		**SHB344812-600**
	240	600		**SHB344824-600**
2¼ × 1	120	225		**SHB361612-225**
	240	225		**SHB361624-225**
2¼ × 1½	120	350		**SHB362412-350**
	240	350		**SHB362424-350**
	240	500	24″ SS Braid	**B019091**
2¼ × 2	120	450		**SHB363212-450**
	240	450		**SHB363224-450**
2¼ × 2½	240	600	Post	**SHB364024-600P**
	120	600		**SHB364012-600**
	240	600		**SHB364024-600**
2¼ × 3	120	700		**SHB364812-700**
	240	700		**SHB364824-700**
2⅜ × 1	120	150		**SHB381612-250**
	240	250	Post	**SHB381624-250**
	240	250	Post	**36210B***
	460	250	Post	**47937B***
2⅜ × 1½	120	400		**SHB382412-400**
	240	400		**SHB382424-400**
2⁷⁄₁₆ × 1	230	250	72″ Leads	**66270B***
2½ × 1	120	300		**SHB401612-300**
	240	300		**SHB401624-300**
	120	300	Post	**SHB401612-300P**
	240	300	Post	**SHB401624-300P**
2½ × 1½	120	350		**SHB402412-350**
	240	350		**SHB402424-350**
2½ × 1¾	240	500		**SHB402824-500**
2½ × 2	240	350	24″ SS Braid	**B017045**
	120	500		**SHB403212-500**
	240	500		**SHB403224-500**
2½ × 2⅜	120	550	Post	**SHB403812-550P**
	240	550	Post	**SHB403824-550P**
	120	650	Post	**SHB403812-650P**
	240	650	Post	**SHB403824-650P**
3 × 1	240	300	24″ SS Braid	**B022530**
2½ × 3	120	700		**SHB404812-700**
	240	700		**SHB404824-700**
2½ × 4	240	850	Post	**SHB406424-850P**
2½ × 5	240	1150	Post	**SHB408024-1150P**
	230	900	Post	**45982B***
2¾ × 1½	120	400		**SHB442412-400**
	240	400		**SHB442424-400**

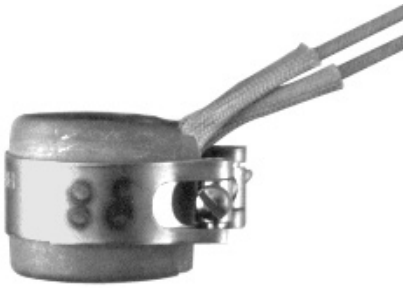


STANDARD MICA HEATER BANDS

*Equal to Van Dorn O.E.M. heater band. Full listing by Van Dorn part number follows these bands.
**270° coverage, post terminals, padded strap, stainless sheath, high temp. construction. For 2 piece bands, total wattage & voltage are shown.

Standard Mica Heater Bands

I.D. × Width	Volts	Watts	12″ Flexible Leads Unless Noted	Part Number
3 × 1	120	300		**SHB481612-300**
	240	300		**SHB481624-300**
	230	400	Post	**12393B***
	460	400	2 pc/Post Terms	**51191B***
	460	400		**66301B***
	230	400		**66302B***
3 × 1½	120	500		**SHB482412-500**
	220	400	Post	**36211B***
	240	500		**SHB482424-500**
	240	500	12″ SS Braid	**B030030**
3 × 2	120	600		**SHB483212-600**
	240	600		**SHB483224-600**
	240	600	12″ SS Braid	**B030114**
3 × 3	120	900		**SHB484812-900**
	240	900		**SHB484824-900**
3⅛ × 1	240	400		**SHB501624-400**
3⅛ × 1½	240	500		**SHB502424-500**
3¼ × 1	120	350		**SHB521612-350**
3½ × 1	120	350		**SHB561612-350**
	240	400	24″ SS Braid	**B014594**
3½ × 1½	240	500	12″ SS Braid	**B027889**
	240	500	Post	**SHB562424-500P**
3½ × 2	240	650	Post	**SHB563224-650P**
3⅝ × 1½	230	625	Post	**64890B*- Ceramic**
	240	625	Post	**40978B***
	240	650	Post	**SHB602424-650P**
4 × 1	240	400	12″ SS Braid	**B039990**
	240	400	24″ SS Braid	**B018999**
	240	625	Post	**SHB641624-625P**
	240	625	Post	**32138B***
4 × 1½	240	625	Post	**SHB642424-625P**
	220	625	Post	**25148B***
	230	400	Post	**41989B***
	230	625	18″ Leads	**303137B***
	460	625	18″ Leads	**66258B***
	230	625	Post	**66952B*-**
	230	725	Post	**307225B***
4 × 2	240	650	12″ SS Braid	**B038061**
	240	800	12″ SS Braid	**B037691**
	240	800	Post	**SHB643224-800P**
	460	460	2 pc/**see below	**78540B***
	460	1100	Post	**307660B***
	230	1250		**67736B*- (Ceramic)**



STANDARD MICA HEATER BANDS

*Equal to Van Dorn O.E.M. heater band. Full listing by Van Dorn part number follows these bands.
**270° coverage, post terminals, padded strap, stainless sheath, high temp. construction. For 2-piece bands, total wattage & voltage are shown.

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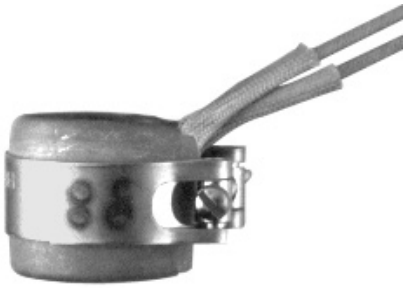
Standard Mica Heater Bands

I.D. × Width	Volts	Watts	12″ Flexible Leads Unless Noted	Part Number
4 × 2¼	120	800		**SHB643612-800**
4½ × 1½	240	750	Post	**SHB722424-750P**
4½ × 4	240	1400	24″ SS Braid	**B036704**
5 × 1½	240	800	12″ SS Braid	**B021068**
5 × 2	240	1000	Term Posts	**B021396**
	240	1000	12″ SS Braid	**B046757**
5⅛ × 1½	230	700	Post	**29339B***
5¼ × 1	230	600	Post	**65982B***
	460	600	34″ Leads	**301659B***
5¼ × 1½	230	300	Post	**74842B***
	230	600	Post	**16526B***
	230	600		**64584B*- Ceramic**
	230	500	Post	**74840B***
	230	1000	Post	**12391B***
	230	1000		**77685B*- Ceramic**
	480	600	2 Pc Post	**74842B***
5¼ × 2	460	666	2 pc/**see below	**77123B***
5¼ × 3	230	1700	Post	**302454B***
5¼ × 4½	230	2400	Post	**302456B***
	230	2700	Post	**307865B***
5¼ × 5	230	2400	Post	**307866B***
5½ × 1½	240	700	24″ SS Braid	**B041264**
5¾ × 1	460	600	34″ Leads	**307260B***
5¾ × 1½	230	600	Post	**28784B***
	230	600	Post	**68105B*- Ceramic**
	460	1000	Post	**302514B***
6 × 1	240	500	48″ SS Braid	**B014595**
6 × 1½	230	600	Post	**37587B***
	230	1000	2 pc Post	**41987B***
	230	1000	2 pc Post	**66821B*- Ceramic**
	240	1000	Term Posts	**B012799**
	460	1000	Post	**307863B***
6¾ × 1½	230	815	Post	**25147B***
	240	1000	Post	**51137B***
	230	600	Post	**41988B***
	460	1000	Post	**307861B***
6¾ × 2½	460	1150	2 pc/**see below	**76928B***
6¾ × 4	230	2600	Post	**307864B***
6¾ × 6	230	3750	Post	**307859B***
	460	3750	Post	**307860B***
7½ × 1½	230	815	Post	**28786B***
7⅝ × 3	230	2000	Post	**27213B***
	230	1800	Post	**27214B***



STANDARD MICA HEATER BANDS

Standard Mica Heater Bands

I.D. × Width	Volts	Watts	12″ Flexible Leads Unless Noted	Part Number
8¼ × 2	220	1800	2 pc/Post Terms	**29347B***
	440	1800	2 pc/Post Terms	**31805B***
8¼ × 3	230	1800	Post	**37186B***
	230	2000	Post	**30465B***
8½ × 4	230	1800	Post	**38948B***
9½ × 3	240	2000	Post	**29341B***
	460	1930	2 pc/**see below	**78541B***
9½ × 6	460	4000	2 pc/Post Terms	**38947B***
11 × 3	230	1000	Post	**71922B***
11¼ × 3	460	2400	2 pc/Post Terms	**45985B***

*Equal to Van Dorn O.E.M. heater band. Full listing by Van Dorn part number follows these bands.
**270° coverage, post terminals, padded strap, stainless sheath, high temp. construction. For 2-piece bands, total wattage & voltage are shown.

High Quality & Low, Low Prices!

STANDARD MICA HEATER BANDS

Replacement Heater Band Straps

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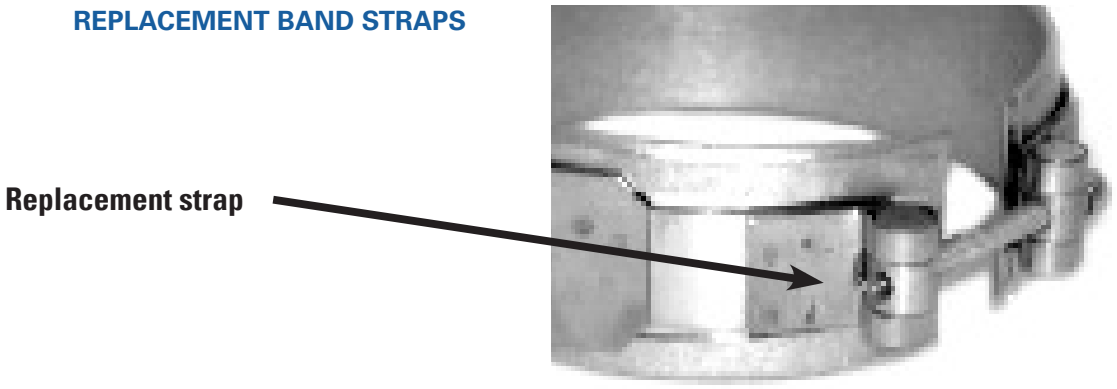
Item	Part Number
Replacement bands for : 1″ × 1″ Band Strap	**HB1STRAP**
Replacement bands for: 1½″ × 1½″ Band Strap	**HB112STRAP**

REPLACEMENT BAND STRAPS



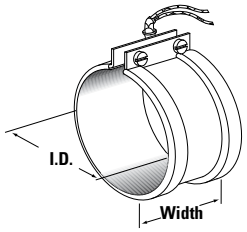
Mica Heater Bands

With Flange Lock-up

Heavy-Duty Nozzle Bands with Flange Lock-up

Far superior to low cost alternatives, these bands provide the most economical option for the long term.

- Premium quality natural mica insulation
- Reinforced lead exit for long life
- High watt density
- Ultra-smooth I.D. bore - reduces hot spots



Dual voltage bands (120/240V) can be configured for either voltage

- For 240V, use two red wires as power leads; white wire is not used (insulate with tape)
- For 120V, connect 2 red wires and use as on power lead; use red wire as second lead

Mix and match sizes for maximum discount.

MICA HEATER BANDS

I. D.	Width	Watts	Volts	Lead Length & Configuration	Part Number
⅞″	1″	75W	240	36″ Flexible Glass Covered	**NB0810A2**
1″	1″	100W	120	14″ Flexible Glass Covered	**NB1010A1**
			240		**NB1010A2**
			120/240		**NB1010AD**
1″	1½″	150W	120	14″ Flexible Glass Covered	**NB1015A1**
			240		**NB1015A2**
			120/240		**NB1015AD**
1″	2″	200W	120	14″ Flexible Glass Covered	**NB1020A1**
			240		**NB1020A2**
			120/240		**NB1020AD**
1″	2½″	250W	120	14″ Flexible Glass Covered	**NB1025A1**
			240		**NB1025A2**
1″	3″	300W	120	14″ Flexible Glass Covered	**NB1030A1**
			240		**NB1030A2**
1¼″	1″	125W	240	14″ Flexible Glass Covered	**NB1210A2**
1¼″	1½″	200W	240	14″ Flexible Glass Covered	**NB1215A2**
1¼″	2″	250W	240	14″ Flexible Glass Covered	**SHB203224-250**
1¼″	3″	400W	240	14″ Flexible Glass Covered	**SHB204824-400**
1⅜″	1″	150W	240	14″ Flexible Glass Covered	**NB1310A2**
1⅜″	1½″	200W	240	14″ Flexible Glass Covered	**SHB222024-200**
1⅜″	2″	300W	240	14″ Flexible Glass Covered	**SHB223224-275**
			120/240		**NB1320AD**
1½″	⅝″	100W	120	14″ Flexible Glass Covered	**NB1506A1**
			240		**NB1506A2**
1½″	1″	150W	120	14″ Flexible Glass Covered	**NB1510A1**
			240		**NB1510A2**
			120/240		**NB1510AD**
1½″	1½″	250W	120	14″ Flexible Glass Covered	**NB1515A1**
			240		**NB1515A2**
			120/240		**NB1515AD**
1½″	2″	300W	120	14″ Flexible Glass Covered	**NB1520A1**
			240		**NB1520A2**
			120/240		**NB1520AD**
			240	36″ Flexible S. Steel Armor	**NB1520C2**

Heavy-Duty Nozzle Bands with Flange Lock-up

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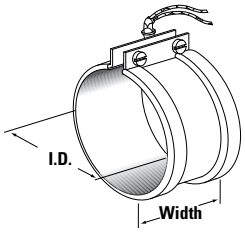

Dual voltage bands (120/240V) can be configured for either voltage

- For 240V, use two red wires as power leads; white wire is not used (insulate with tape)
- For 120V, connect 2 red wires and use as on power lead; use red wire as second lead

Mix and match sizes for maximum discount.

MICA HEATER BANDS

I. D.	Width	Watts	Volts	Lead Length & Configuration	Part Number
1½″	2½″	350W	120	14″ Flexible Glass Covered	**NB1525A1**
			240		**NB1525A2**
			120/240		**NB1525AD**
1½″	3″	450W	120	14″ Flexible Glass Covered	**NB1530A1**
			240		**NB1530A2**
			120/240		**NB1530AD**
			240	14″ Flexible S. Steel Armor	**SHB244824-450S**
1½″	4″	600W	120	14″ Flexible Glass Covered	**NB1540A1**
			240		**NB1540A2**
			120/240		**NB1540AD**
1½″	5″	750W	120	14″ Flexible Glass Covered	**NB1550A1**
			240		**NB1550A2**
			120/240		**NB1550AD**
1½″	6″	850W	120	14″ Flexible Glass Covered	**NB1560A1**
			240		**NB1560A2**
			120/240		**NB1560AD**
1⁹⁄₁₆″	1½″	250W	240	14″ Flexible Glass Covered	**NB1615A2**
1⁹⁄₁₆″	2″	325W	120	14″ Flexible Glass Covered	**NB1620A1**
			240		**NB1620A2**
1¾″	1″	175W	120	14″ Flexible Glass Covered	**SHB281612-175**
			240		**NB1710A2**
1¾″	1½″	250W	120	14″ Flexible Glass Covered	**NB1715A1**
			240		**NB1715A2**
			120/240		**NB1715AD**
1¾″	2″	350W	240	14″ Flexible Glass Covered	**NB1720A2**
			120/240		**NB1720AD**
1¾″	3″	500W	240	14″ Flexible Glass Covered	**NB1730A2**
			120/240		**NB1730AD**
1¾″	4″	700W	120	14″ Flexible Glass Covered	**NB1740A1**
			240		**NB1740A2**
1¾″	5″	900W	240	14″ Flexible Glass Covered	**NB1750A2**
1¾″	6″	1000W	120	14″ Flexible Glass Covered	**NB1760A1**
2″	1″	200W	120	14″ Flexible Glass Covered	**NB2010A1**
			240		**NB2010A2**

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Mica Heater Bands

With Flange Lock-up

Heavy-Duty Nozzle Bands with Flange Lock-up

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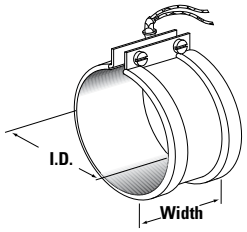


Dual voltage bands (120/240V) can be configured for either voltage

- For 240V, use two red wires as power leads; white wire is not used (insulate with tape)
- For 120V, connect 2 red wires and use as on power lead; use red wire as second lead

Mix and match sizes for maximum discount.

MICA HEATER BANDS

I. D.	Width	Watts	Volts	Lead Length & Configuration	Part Number
2″	1½″	300W	240	14″ Flexible Glass Covered	**NB2015A2**
2″	2″	400W	240	14″ Flexible Glass Covered	**NB2020A2**
2″	2½″	500W	240	14″ Flexible Glass Covered	**NB2025A2**
2″	3″	600W	240	14″ Flexible Glass Covered	**NB2030A2**
2″	4″	800W	120	14″ Flexible Glass Covered	**NB2040A1**
2⅛″	1″	200W	240	14″ Flexible Glass Covered	**NB2110A2**
2⅛″	1½″	300W	240	14″ Flexible Glass Covered	**NB2115A2**
2¼″	1″	225W	240	14″ Flexible Glass Covered	**NB2210A2**
			120/240		**NB2210AD**
2¼″	3″	700W	120	14″ Flexible Glass Covered	**NB2230A1**
2⅜″	1″	250W	240	14″ Flexible Glass Covered	**NB2310A2**
2⅜″	1½″	400W	120	14″ Flexible Glass Covered	**NB2315A1**
			240		**NB2315A2**
2½″	1″	250W	240	14″ Flexible Glass Covered	**NB2510A2**
			120/240		**NB2510AD**
2½″	1½″	375W	120	14″ Flexible Glass Covered	**NB2515A1**
			240		**NB2515A2**
			120/240		**NB2515AD**
2½″	2″	500W	240	14″ Flexible Glass Covered	**NB2520A2**
2½″	3″	750W	240	14″ Flexible Glass Covered	**NB2530A2**
			240	36″ Flexible S. Steel Armor	**NB2530C2**
2¾″	1½″	400W	120	14″ Flexible Glass Covered	**NB2715A1**
			240		**NB2715A2**
3″	1″	300W	120	14″ Flexible Glass Covered	**NB3010A1**
			240		**NB3010A2**
3″	1½″	450W	240	14″ Flexible Glass Covered	**NB3015A2**
			120/240		**NB3015AD**
3″	2″	600W	240	14″ Flexible Glass Covered	**NB3020A2**
3″	3″	900W	240	14″ Flexible Glass Covered	**NB3030A2**
3½″	1″	350W	240	14″ Flexible Glass Covered	**NB3510A2**
3½″	1½″	525W	120	14″ Flexible Glass Covered	**NB3515A1**
			240		**NB3515A2**
3½″	2″	700W	240	14″ Flexible Glass Covered	**NB3520A2**
3½″	2½″	875W	240	14″ Flexible Glass Covered	**NB3525A2**

Where Heater Band Clearance is Problematic! Ideal for Recessed Sprues.

Applications: Use where recessed sprue bushings and similar obstructions create limited space for nozzle heater bands. These bands require only 3⁄8″ to 1⁄2″ diameter clearance. (3⁄16″ to 1⁄4″ on a side.)

Example: Using nozzle with 1 1⁄2″ body diameter plus Wedge-Lock band, the clearance required is only 2″ or less.

This band is frequently used in place of regular nozzle bands due to ease of installation and removal.
14″ Flexible Fiberglass

Covered Leads
To install, simply slide band over nozzle, then tap tapered key. Band will automatically tighten to snug fit.

To remove, simply tap tapered key in opposite direction, then pull off band.

Wedge type tapered key locking device requires only 3⁄8″ to 1⁄2″ clearance on diameter.

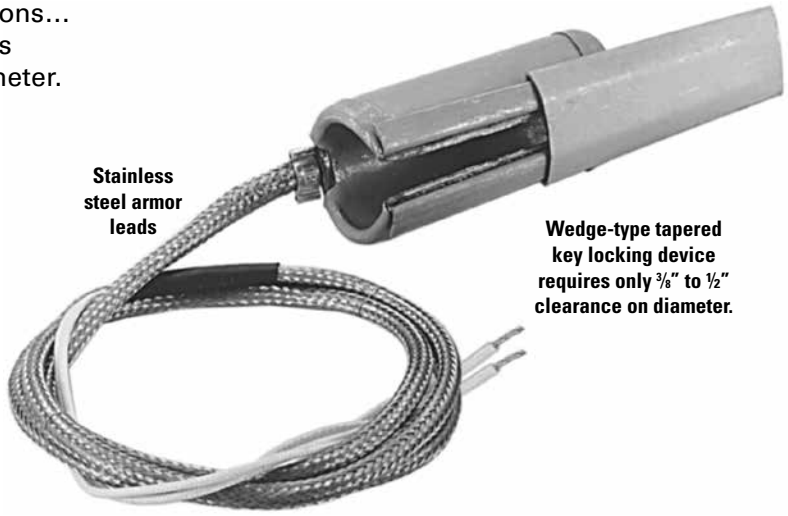
Dia.	Width	Watts	Part Number	
			120V	240V
1″	1″	100	F1011	F1012
	1½″	150	F1015	F1016
	2″	200	F1021	F1022
	2½″	250	F1025	F1026
	3″	300	F1031	F1032
	4″	400	F1041	F1042
1¼″	1″	125	F1211	F1212
	1½″	200	F1215	F1216
	2″	250	F1221	F1222
	3″	400	F1231	F1232
1⅜″	2″	300	F1321	F1322
1½″	1″	150	F1511	F1512
	1½″	250	F1515	F1516
	2″	300	F1521	F1522
	2½″	350	F1525	F1526
	3″	450	F1531	F1532
	4″	600	F1541	F1542
	5″	750	F1551	F1552
1¾″	1″	175	F1711	F1712
	1½″	250	F1715	F1716
	2″	350	F1721	F1722
	3″	500	F1731	F1732
	4″	700	F1741	F1742
	6″	1000	F1761	F1762
2″	1″	200	F2011	F2012
	1½″	300	F2015	F2016
	2″	400	F2021	F2022
	3″	600	F2031	F2032
	4″	800	F2041	F2042
2½″	1½″	375	F2515	F2516
	2″	500	F2521	F2522
	3″	750	F2531	F2532
3″	1½″	450	F3015	F3016
	2″	600	F3021	F3022
	3″	900	F3031	F3032

Wedge-Lock Heater Bands

Use for Recessed Sprue Bushing Applications... Wedge-Type Tapered Locking Heater Bands require only 3⁄8″ to 1⁄2″ clearance on diameter.

Standard 14″ or 36″ Stainless Steel Armor Leads

14″ or 36″ flex leads exit 180° from heater band opening. Also available with longer length stainless steel flexible armored lead.



WEDGE LOCK HEATERS

Dia.	Width	Watts	Volts	14″ Stainless Steel Leads Part Number	36″ Stainless Steel Leads Part Number
1″	1″	100	120	F1011B	F1011C
			240	F1012B	F1012C
	1½″	150	120		F1015C
			240	F1016B	F1016C
	2″	200	120	F1021B	F1021C
			240	F1022B	F1022C
	2½″	250	120	F1025B	F1025C
			240	F1026B	F1026C
	3″	300	120		F1031C
			240	F1032B	F1032C
	4″	400	240	F1042B	F1042C
	3″	400	240		F1232C
1⅜″	2″	300	120	F1321B	F1321C
1½″	1″	150	120	F1511B	F1511C
			240		F1512C
	1½″	250	120		F1515C
	1½″	300	120	F1516B	F1516C
	2″	300	240	F1522B	F1522C
	2½″	350	120	F1525B	F1525C
			240	F1526B	F1526C
	3″	450	120		F1531C
			240	F1532B	
	4″	600	120		F1541C
			240	F1542B	
	5″	750	120	F1551B	F1551C
			240	F1552B	F1552C
1¾″	1″	175	240	F1712B	F1712C
	2″	350	240	F1722B	F1722C
	3″	500	120	F1731B	F1731C
	4″	700	120		F1741C
	6″	1000	240	F1762B	

Cincinnati Milacron

OEM REPLACEMENT BANDS

OEM Number	Part Number	Type	I.D.	Width	Watts	Volts
326330	**CMN00033**	Mineral	5	1½	580	240/480
326331	**CMN00034**	Mineral	6½	1½	1000	240/480
326332	**CMN00035**	Mineral	7½	1½	900	240/480
326333	**CMN00036**	Mineral	8	1½	1000	240/480
326334	**CMN00037**	Mineral	9	1½	1400	240/480
326335	**CMN00038**	Mineral	10	1½	1200	240/480
326336	**CMN00039**	Mineral	11	1½	1480	240/480
326337	**CMN00040**	Mineral	7	1½	580	240/480
326338	**CMN00041**	Mineral	8	1½	800	240/480
326340	**CMN00043**	Mineral	9	1½	1100	240/480
326341	**CMN00045**	Mineral	9½	1½	1000	240/480
326342	**CMN00047**	Mineral	13	1½	1400	240/480
326344	**CMN00049**	Mineral	14½	1½	1480	240/480
326346	**CMN00051**	Mineral	5	1½	770	240/480
326347	**CMN00053**	Mineral	7	1½	1000	240/480
3901991	**CMN00055**	Mica	1½	1½	275	120
3901993	**CMN00056**	Mica	1½	4	500	120
3904526	**CMN00057**	Mica	1½	1½	300	120
3994402	**CMN00058**	Mica	5⅞	5¼	2350	240/480
3994523	**CMN00059**	Mica	7½	7¼	5000	240/480
5021019	**CMN00060**	Mica	9⁷⁄₁₆	2	1700	240/480
5021020	**CMN00061**	Mica	9⁷⁄₁₆	3½	3000	240/480
5021021	**CMN00062**	Mica	8¹⁄₁₆	4	2100	240/480
5021022	**CMN00063**	Mica	8¹⁄₁₆	9¼	4900	240/480
5021232	**CMN00065**	Mica	11¹³⁄₁₆	2	2200	240/480
5021233	**CMN00066**	Mica	11¹³⁄₁₆	3½	3900	240/480
5021234	**CMN00067**	Mica	8⁷⁄₁₆	3½	2800	240/480
5021235	**CMN00068**	Mica	8⁷⁄₁₆	8½	6800	240/480
5021402	**CMN00069**	Mica	4¹⁵⁄₁₆	2⅜	1000	240/480
5021428	**CMN00070**	Mica	4¹⁵⁄₁₆	2⅜	1200	240/480
5022010	**CMN00071**	Mica	6½	5½	3000	240/480
5022013	**CMN00072**	Mica	4¹⁵⁄₁₆	4	1000	240/480
5022015	**CMN00073**	Mica	5½	4½	1700	240/480

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OEM Replacement Bands

Cincinnati Milacron

OEM Number	Part Number	Type	I.D.	Width	Watts	Volts
5024377	**CMN00074**	Mica	10 7/16	2	2000	240/480
5024378	**CMN00076**	Mica	10 7/16	3 1/2	3300	240/480
5024379	**CMN00078**	Mica	8 1/2	5 1/2	3800	240/480
5024380	**CMN00079**	Mica	8 1/2	10	7000	240/480
5025037	**CMN00080**	Mica	8 1/2	7 7/8	7000	240/480
5025306	**CMN00081**	Mica	8 1/2	2	1900	240/480
5027465	**CMN00082**	Mica	13	2 1/2	3000	240/480
5027466	**CMN00083**	Mica	13	4 3/4	5000	240/480
5027467	**CMN00084**	Mica	9 7/16	3	2300	240/480
5032143	**CMN00086**	Mica	7 1/2	3 1/2	2325	240
5032147	**CMN00087**	Mica	8 7/16	4 1/2	2275	240
5032153	**CMN00088**	Mica	9 7/16	4 5/8	3425	240
5033192	**CMN00089**	Mineral	13	2	3000	240/480
5033194	**CMN00090**	Mineral	9 7/16	4	4000	240/480
5034485	**CMN00091**	Mineral	9 7/16	3	2400	240/480
5034486	**CMN00092**	Mineral	9 7/16	2	1600	240/480
5034487	**CMN00093**	Mineral	8 1/16	3	2000	240/480
5035117	**CMN00094**	Mineral	8 1/16	4	2650	240/480
5035761	**CMN00095**	Mineral	11	4	3500	240/480
5038858	**CMN00096**	Mineral	5 7/8	5	2350	240/480
5038989	**CMN00097**	Mineral	4 15/16	4	1200	240/480
5039028	**CMN00098**	Mineral	8 7/16	5	3250	240/480
5039197	**CMN00099**	Mineral	6 1/2	5	3000	240/480
5039239	**CMN00100**	Mineral	7 1/2	3	2325	240/480
5039247	**CMN00101**	Mineral	9 7/16	3	2300	240/480
3988972-3	**CMN00102**	Mica	5 7/8	1 1/2	675	240/480
3989010-3	**CMN00103**	Mica	6 1/2	1 1/2	900	240/480
3989120-4	**CMN00104**	Mica	7 1/2	1 1/2	1500	240/480
3990305-3	**CMN00105**	Mica	5 1/2	2 1/2	950	240/480
3991263-3	**CMN00106**	Mica	4 7/8	2 1/2	720	240/480

OEM REPLACEMENT BANDS

Part Number	I.D.	Width	Volts	Watts	Leads or One Piece	Terminals
12391B	5¼	1½	230	1000	Yes	Post
12393B	3	1	230	400	Yes	Post
12473B	5¾	1½	230	1000	Yes	Post
16526B	5¼	1½	230	600	Yes	Post
25147B	6¾	1½	220	815	Yes	Post
25148B	4	1½	220	625	Yes	Post
27213B	7⅝	3	230	2000	Yes	Post
27214B	7⅝	3	230	1800	Yes	Post
28784B	5¾	1½	230	600	Yes	Post
28786B	7½	1½	230	815	Yes	Post
29339B	5⅛	1½	230	700	Yes	Post
29341B	9½	3	240	2000	Yes	Post
29347B	8¼	2	220	1800	2 pc.	Post
301659B	5¼	1	460	600	Yes	34″Leads
302454B	5¼	3	230	1700	Yes	Post
302455B	5¼	4½	230	3300	Yes	Post
302456B	5¼	4½	230	2400	Yes	Post
302457B	5¼	2¼	230	1300	Yes	Post
302458B	5¼	2¼	460	1300	Yes	Post
302459B	3	1	230	400	Yes	100″Leads
302511B	6¾	1½	230	1300	Yes	Post
302512B	5¾	1	460	600	Yes	Post
302514B	5¾	1½	460	1000	Yes	Post
302517B	5¼	1	460	600	Yes	Post
302748B	3	1½	240	500	Yes	Post
302971B	5¼	3	460	1700	Yes	Post
302972B	5¼	4½	460	2400	Yes	Post
303137B	4	1½	230	625	Yes	118″Leads
303142B	6¾	1½	460	1100	Yes	Post
303147B	6¾	5	230	4700	Yes	Post
303150B	6¾	4¼	230	3100	Yes	Post
303152B	7½	1½	230	1100	Yes	Post
303508B	5	2½	230	1300	Yes	172″Leads
304265B	6¾	5	230	3700	Yes	Post
304266B	6¾	4¼	460	3100	Yes	Post
304624B	6	1½	460	1100	2 pc.	Post
30465B	8¼	3	230	2000	Yes	Post
305562B	4	2¼	230	1100	Yes	Post
305748B	5¼	1½	460	800	Yes	Post
305916B	2½	4	115	1200	Mineral	154″Leads
307223B	3⅝	1½	230	525	Yes	Post
307224B	3⅝	1½	230	650	Yes	Post
307225B	4	1½	230	725	Yes	Post
307228B	6	1½	230	1000	Yes	Post
307232B	6¾	3½	230	2400	Yes	Post

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OEM Replacement Bands

Van Dorn

OEM REPLACEMENT BANDS

Part Number	I.D.	Width	Volts	Watts	Leads or One Piece	Terminals
307235B	7⅝	4½	460	3150	Yes	Post
307236B	7⅝	3½	460	2250	Yes	Post
307283B	8¼	2	460	1600	Yes	Post
307240B	8¼	4	460	3350	2 pc.	Post
307242B	9½	5	460	4500	2 pc.	Post
307245B	11	3	460	2950	2 pc.	Post
307247B	13	3	460	3500	2 pc.	Post
307249B	13	6	460	7000	2 pc.	Post
307260B	5¾	1	460	600	Yes	34″Leads
307293B	8¼	2½	460	2000	2 pc.	Post
307356B	7⅝	3	460	2200	Yes	Post
307357B	9½	5½	460	4900	2 pc.	Post
307358B	9½	6	460	5300	2 pc.	Post
307359B	9½	6	460	5400	2 pc.	Post
307360B	11¼	5	460	5100	2 pc.	Post
307659B	5¼	7	460	600	Yes	Post
307660B	4	2	460	1100	Yes	Post
307695B	5¼	1	460	600	Yes	36″Leads
307857B	9½	2	460	1800	2 pc.	Post
307859B	6¾	6	230	3750	Yes	Post
307860B	6¾	6	460	3750	Yes	Post
307861B	6¾	1½	460	1000	Yes	Post
307862B	6¾	3½	460	2400	Yes	Post
307863B	6	1½	460	1000	Yes	Post
307864B	6¾	4	230	2600	Yes	Post
307865B	5¼	4½	230	2700	Yes	Post
307866B	5¼	5	230	2400	Yes	Post
307867B	6¾	1½	460	1200	Yes	Post
307868B	5¾	1	230	600	Yes	36″Leads
31805B	8¼	2	440	1800	2 pc.	Post
32138B	4	1	240	625	Yes	Post
36210B	2⅜	1	240	250	Yes	Post
36211B	3	1½	220	450	Yes	Post
37186B	8¼	3	230	1800	Yes	Post
37587B	6	1½	230	600	Yes	Post
38947B	9½	6	460	4000	2 pc.	Post
38948B	8½	4	230	1800	2 pc.	Post
40978B	3⅝	1½	240	625	Yes	Post
41987B	6	1½	230	1000	2 pc.	Post
41988B	6¾	1½	230	600	Yes	Post
41989B	4	1½	230	400	Yes	Post
45982B	2½	5	230	900	Yes	Post
45983B	5½	3	230	1000	Yes	Post
45985B	11¼	3	460	2400	2 pc.	Post
47937B	2⅜	1	460	250	Yes	Post

Part Number	I.D.	Width	Volts	Watts	Leads or One Piece	Terminals
50070B	4	1	460	626	2 pc.	Post
50071B	4	1½	460	625	Yes	Post
50387B	1½	1½	230	275	Yes	Stainless. 54″
51137B	6¾	1½	240	1000	Yes	Post
51191B	3	1	460	400	2 pc.	Post
51796B	3⅝	1½	460	625	Yes	Post
61367B	7⅝	2	460	1300	2 pc.	Post
64584B	5¼	1½	230	600		Ceramic Bands
64890B	3⅝	1½	230	625		Ceramic Bands
65982B	5¼	1	230	600	Yes	Post
66258B	4	1½	460	625	Yes	18″Leads
66270B	2⁷⁄₁₆	1	230	250	Yes	70″Leads
66301B	3	1	460	400	Yes	10″Leads
66302B	3	1	230	400	Yes	10″Leads
66821B	6	1½	230	1000		Ceramic Bands
66822B	6¾	1½	230	1000		Ceramic Bands
66952B	4	1½	230	625		Ceramic Bands
67082B	4	1½	460	400	Yes	12″Leads
67729B	8¼	2	230	1800	Yes	Post
67736B	4	2	230	1250		Ceramic Bands
67769B	5⅛	1½	230	700	Yes	168″Leads
67945B	3	1	240	400	Yes	36″Leads
68103B	6¾	1½	230	815		Ceramic Bands
68105B	5¾	1½	230	600		Ceramic Bands
71922B	11	3	230	1000	2 pc.	Post
74840B	5¼	1½	230	500	2 pc.	Post
74842B	5¼	1½	480	600	2 pc.	Post
76928B	6¾	2½	460	1150	2 pc.	See below
77123B	5¼	2	460	666	2 pc.	See below
77529B	7⅝	3	460	1800	2 pc.	Post
77685B	5¼	1½	230	1000		Ceramic Bands
78498B	6¾	1½	460	816	2 pc.	Post
78540B	4	2	460	460	2 pc.	See below
78541B	9½	3	460	1930	2 pc.	See below
99533B	1½	1½	230	275	Yes	144″Leads

Custom Mica Heater Bands

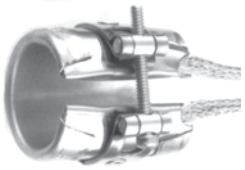
CUSTOM MICA HEATER BANDS

Heater Designs & Construction

PC
Partial Coverage

TYPE W3-A
Post Terminals
Both posts on one side of gap
Minimum I.D. - 3″
Minimum width - ¾″

TYPE W3-LE
Fiberglass Covered Leads
Leads exit each side of gap
Minimum I.D. - ¾″
Minimum width - 1″



TYPE W3-KS
Stainless Covered Leads
Leads exit each side of gap
Minimum I.D. - ¾″
Minimum width - 1″

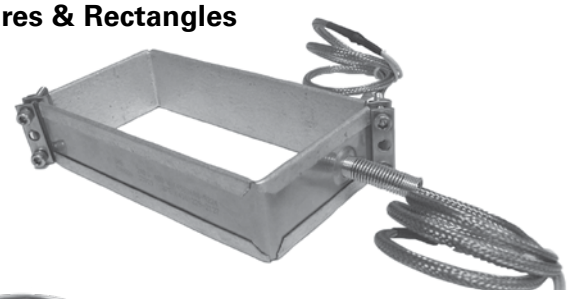
HINGED T7
Separate Straps
Minimum I.D. - 1½″
Minimum width - 1″

TYPE W3-B
Post Terminals
Both posts on one side of gap
Minimum I.D. - 1½"
Minimum width - ¾″

TYPE W3-L
Fiberglass Covered Leads
Minimum I.D. - 1″
Minimum width - ¾″

TYPE W3-K
Stainless Covered Leads
Minimum I.D. - 1″
Minimum width - ¾″

Squares & Rectangles



TYPE W3-C
Post Terminals
Both posts on one side of gap
Minimum I.D. - 1½″
Minimum width - ¾″

TYPE W3-KB
Stainless Steel
Covered Leads
Lead exit opposite gap from edge
Min. I.D. - ½″ Min. width - 1″

European Plugs

W3-EP
Min. I.D. - 1½″

W3-EP90
Min. width - 1″

Terminal Boxes W3-Q

XB Type
Min. I.D. - 2½″
Min. width - ¾″

XB Type
Min. I.D. - 2½″
Min. width - 1¾″

TYPE W3-G
Armor Covered Leads
Minimum I.D. - 1″
Minimum width - ¾″

Order Your Custom Bands Today!
Standard delivery for non-stock items is 2 - 3 weeks
Rush delivery in 2 - 3 days add 25%

Expandable

Design Features

- Energy-efficient, less power consumption
- High sheath temperature capability up to 1600°F
- Thermally insulated
- Uniform temperature
- Flexible, easy to install and remove

CERAMIC HEATER BANDS

Terminal Box Cover

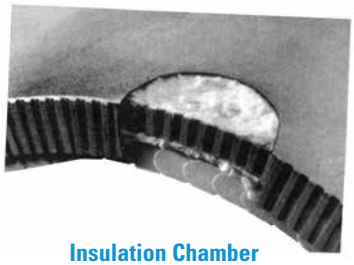
Heavy gauge, rust-resistant material has knockouts for ½" conduit connections.

Ceramic Fiber Insulation

The standard insulation is ¼" thick to improve energy conservation 25% or more than non-insulated bands (½" thick insulation optional). In the Maxi-Insulated design, an additional ½" non-compressed layer of insulation is contained in a separate, flexible chamber for even greater energy savings.

Serrated Sheath

Sheath material is resistant to heat and corrosion. Unique serrations maximize flexibility, increase surface contact and provide easy opening and installation of the heater, eliminating the necessity of two-piece band heaters up to 18" in diameter.



Insulation Chamber

Simplified Installation, Additional Energy Conservation

Ceramic Band Heaters can be manufactured in widths much greater than what is practical in Mica Band Heaters, eliminating heat losses between gaps in narrow band heaters and simplifying installation.

Mounting Flange Included Standard

Quick-release latch is optional for ease of installation. Spring-loaded screw on flange is available to compensate for thermal expansion and contraction (over 18" diameter).

Termination

Located at gap or 180° from the gap.

Thermocouple

Should be located through gap or through hole in overlap flange where possible. Contact DME about holes and cut-outs through sheath.

F

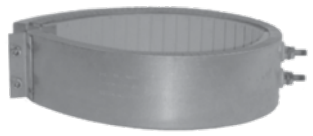
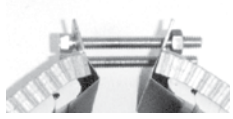
Ceramic Heater Bands

Expandable

Expandable Ceramic 1-1/2" Heater Bands

- 240 volt
- 1-1/2" wide
- One size fits many
- Stainless steel sheath
- Terminal boxes — add BX to part number

Call DME for Any and All of Your Custom Ceramic Heater Band

Part Number	Fits Diameter (mm)	Total Watts	1–½" Wide
CEB-1000-1	4"– 4½" (102–114)	650	
CEB-1002-1	4½"– 5" (114–127)	750	
CEB-1003-1	5"– 5½" (127–140)	825	
CEB-1004-1	5½"– 6" (140–152)	900	
CEB-1005-1	6"– 6½" (152–166)	1000	
CEB-1006-1	6½"– 7" (165–178)	1100	
CEB-1007-1	7"– 7½" (178–190)	1150	
CEB-1008-1	7½"– 8" (190–203)	1250	
CEB-1009-1	8"– 8½" (203–216)	1300	
CEB-1010-1	8½"– 9" (229–241)	1400	
CEB-1011-1	9"– 9½" (229–241)	1500	
CEB-1012-1	9½"– 10" (241–254)	1575	
CEB-1013-1	10"– 10½" (254–267)	1650	
CEB-1014-1	10½"– 11" (267–279)	1725	
CEB-1015-1	11"– 11½" (279–292)	1800	
CEB-1016-1	11½"– 12" (292–305)	1900	

Each band expands over ½"!

CERAMIC HEATER BANDS

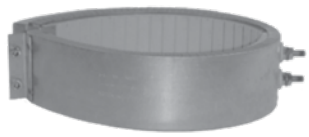
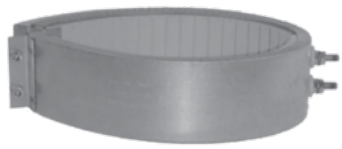
A very versatile band - keep them in stock!

Expandable Ceramic 2-1/2" Heater Bands

- 240 volt
- 2-1/2˝ wide
- One size fits many
- Stainless steel sheath
- Terminal boxes — add BX to part number

Call DME for Any and All of Your Custom Ceramic Heater Band

Each band expands over ½"!

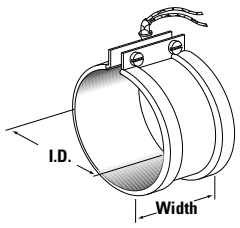
Part Number	Fits Diameter (mm)	Total Watts	2–½" Wide
CEB-1000-2	4"– 4½" (102–114)	1100	
CEB-1002-2	4½"– 5" (114–127)	1200	
CEB-1003-2	5"– 5½" (127–140)	1300	
CEB-1004-2	5½"– 6" (140–152)	1500	
CEB-1005-2	6"– 6½" (152–166)	1650	
CEB-1006-2	6½"– 7" (165–178)	1750	
CEB-1007-2	7"– 7½" (178–190)	1900	
CEB-1008-2	7½"– 8" (190–203)	2000	
CEB-1009-2	8"– 8½" (203–216)	2200	
CEB-1010-2	8½"– 9" (229–241)	2300	
CEB-1011-2	9"– 9½" (229–241)	2475	
CEB-1012-2	9½"– 10" (241–254)	2600	
CEB-1013-2	10"– 10½" (254–267)	2750	
CEB-1014-2	10–½"– 11" (267–279)	2875	
CEB-1015-2	11"– 11½" (279–292)	3000	
CEB-1016-2	11½"– 12" (292–305)	3100	

A very versatile band - keep them in stock!

Mineral Insulated Heater Bands

Designed for Modern High-Temperature Molding Operations

Two fiberglass-insulated lead wires exit in a single metal braid for good abrasion protection, lead flexibility and wiring convenience. Leads are 2″ longer than braid. Standard length is 12″. Specify if longer leads are required.



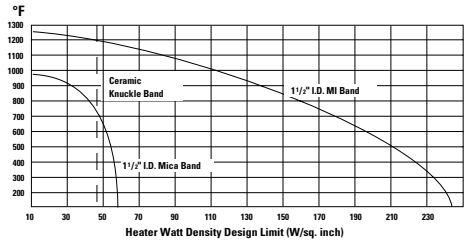
Dia.	Width	Watts	Watts/Sq. In.	Volts	Part Number
1″	1″	100	47	120	**MI1010B1X**
		150	70	120	**MI1010B1**
					MI101012-150F
	1½″	200	58	120	**MI1015B1X**
		200	58	240	**MI1015B2X**
		300	87	120	**MI1015B1**
		300	87	240	**MI1015B2**
1¼″	1″	250	86	120	**MI1210B1**
		250	86	240	**MI1210B2**
	1½″	350	75	120	**MI1215B1**
		350	75	240	**MI1215B2**
1½″	1″	200	54	120	**MI1510B1X**
		200	54	240	**MI1510B2X**
		300	81	120	**MI1510B1**
		300	81	240	**MI1510B2**
	1½″	300	52	120	**MI1515B1**
		300	52	240	**MI1515B2X**
		450	77	240	**MI1515B2A**
	2″	300	38	240	**MI1520B2X**
		450	57	240	**MI1520B2**
	3″	350	29	240	**MI1530B2X**
		500	41	240	**MI1530B2**
1¾″	1½″	300	43	120	**MI1715B1**
		300	43	240	**MI1715B2**
2″	1″	350	66	120	**MI2010B1**
		350	66	240	**MI2010B2**
	1½″	400	49	240	**MI2015B2**
	2″	750	73	240	**MI2020B2**
2¼″	2½″	1000	72	240	**MI2225B2**
2½″	1″	400	58	240	**MI2510B2**
	1½″	500	48	240	**MI2515B2**

MINERAL INSULATED HEATER BAND

When ordering, specify lead length and terminal location. 12″ length leads are standard. For special wattages, voltages or other requirements, please contact DME.

Up to 1400°F and 230 Watts/in. sq.

For today's high melt-temperature engineering materials. Mica bands cannot operate safely above 900°F which makes them inadequate for high-heat engineering materials such as PTFE Ultem, Zytel & Peak. Mineral insulated bands are the solution, capable of continued operating temperatures as high as 1400°F. Also, high thermal conductivity mineral insulation and uniform element construction provide extended life. Optional Ceramic Terminal Covers CTC0124 ordered separately. Includes post terminals, welded on barrel nut hinge, plus clamp.



Operating Temperatures up to 1400°F

Very high-watt density for use in high-heat applications.

Dia.	Width	Type	Volts	Watts	Watts/ sq. in.	Part Number
3″	1″	1pc.	240	400	51	**MI3010P2**
	1½″	1pc.	240	500	40	**MI3015P2**
		2pc.	230/460	525	53	**MI3015P4**
3½″	2″	1pc.	240	800	42	**MI3520P2**
3⅝″	1½″	2pc.	230/460	650	51	**MI3615P2**
4″	1″	1pc.	240	700	62	**MI4010P2**
	1½″	1pc.	240	800	48	**MI4015P2**
		2pc.	230/460	625	43	**MI4015P4**
		2pc.	230/460	725	50	**MI4015P5**
4½″	2½″	1pc.	240	1250	40	**MI4525P2**
5″	1½″	2pc.	240/480	1000	52	**MI5015P2**
5¼″	1½″	2pc.	240/480	1000	48	**MI5215P2**
		2pc.	230/460	600	29	**MI5215P4**
	3″	2pc.	230/460	1700	40	**MI5230P2**
	4½″	2pc.	230/460	2400	38	**MI5245P2**
		2pc.	230/460	2700	43	**MI5245P4**
5½″	1½″	2pc.	240/480	1000	45	**MI5515P2**
6″	1½″	2pc.	240/480	1000	41	**MI6015P2**
6½″	1½″	2pc.	240/480	1250	47	**MI6515P2**
6¾″	1½″	2pc.	230/460	815	29	**MI6715P2**
		2pc.	230/460	1000	36	**MI6715P4**
	4″	2pc.	230/460	2600	35	**MI6740P2**
	5″	2pc.	230/460	3700	40	**MI6750P2**
	6″	2pc.	230/460	3750	33	**MI6760P2**
7″	1½″	2pc.	240/480	1250	43	**MI7015P2**
7½″	1½″	2pc.	240/480	1500	47	**MI7515P2**
7⅝″	3″	2pc.	230/460	1800	28	**MI7630P2**
	4½″	2pc.	230/460	3150	33	**MI7645P2**
8″	1½″	2pc.	240/480	1250	37	**MI8015P2**
9″	1½″	2pc.	240/480	1500	39	**MI9015P2**
9½″	3″	2pc.	230/460	3000	37	**MI9530P2**
11¼″	3″	2pc.	230/460	2400	24	**MI11230P2**
	5″	2pc.	230/460	5100	31	**MI11250P2**

MINERAL INSULATED HEATER BAND

F

Custom Strip Heaters

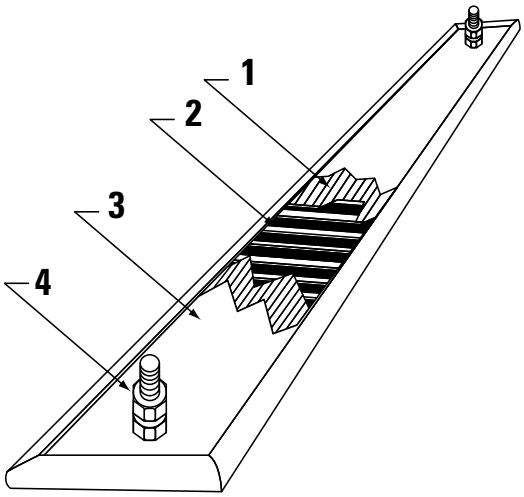
Time-tested materials & manufacturing techniques make the Custom Strip Heater a proven, economical, reliable performer. In applications where a flat surface requires uniform heating, the strip heater has no equal.

Material List

1) Mica provides complete electrical insulation of the heater case from the steel case, while providing maximum heat transfer.

2) Flat nickel-alloy ribbon wire provides the highest heating area possible. Each heater is engineered for wire size and pitch to provide the highest efficiency, while minimizing winding temperature.

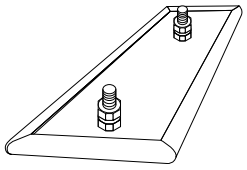
3) The two-piece sheath is composed of a rust-resistant, matte finish, zinc-coated bottom plate and a polished stainless steel top plate. The highly reflective properties of the stainless steel send maximum heat to the working surface. This construction provides excellent heat emissivity and corrosion resistance.



4) Stainless steel post terminals are supplied with nuts and washers. Other terminations are available; see below.

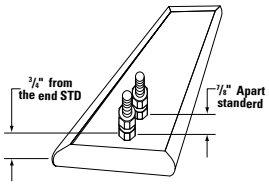
Standard Post Terminal Options

FO-A



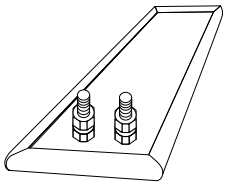
Post Terminals - one on each end; minimum width 3⁄4″

FO-C



Post Terminals - tandem (inline); minimum width 3⁄4″

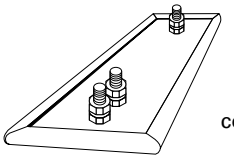
FO-B



Post Terminals - parallel (side by side); minimum width 3⁄4″

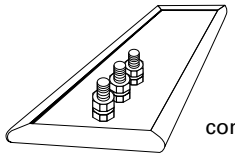
Optional Terminations

Dual-A-Dual Volt 3PH-A-3 Phase



common

Dual-C-Dual Volt 3PH-C-3 Phase



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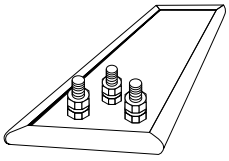
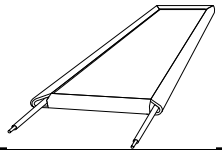
Dual-B-Dual Volt 3PH-B-3 Phase



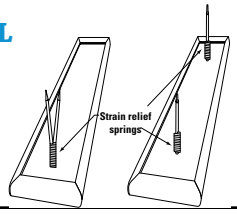
common

LD

Minimum width 1″; 5⁄8″ to 1″ wide available but leads will be one on each end

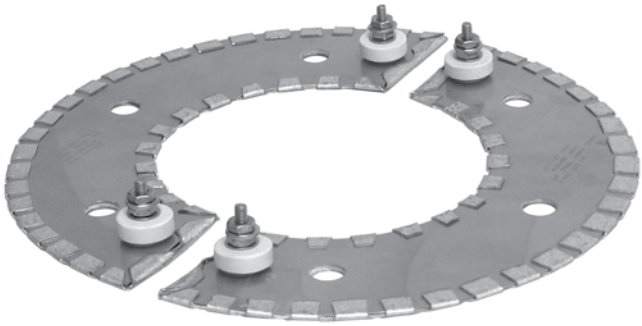


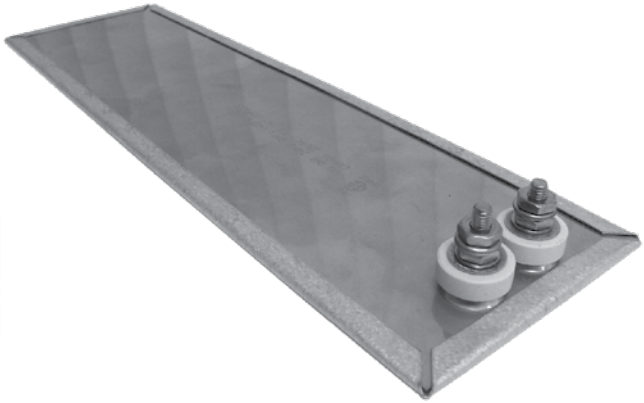
L

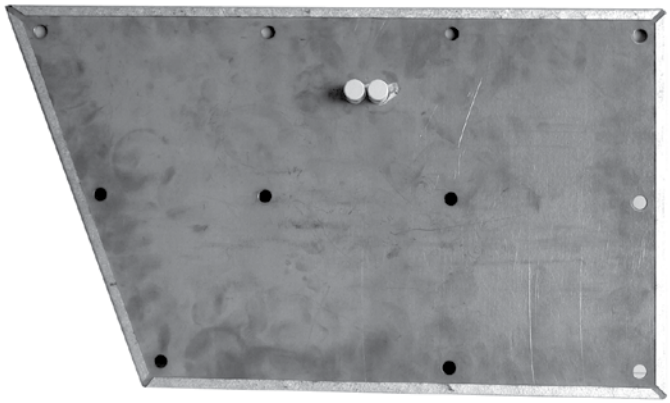


LT

Minimum width 3⁄4







Electric Plugs

Plugs and receptacles for connecting heater bands. Available in basic styles commonly used in European machines. Straight or angled 2-pin plugs with steel or brass prongs in ceramic or rubber insulation with metal case.

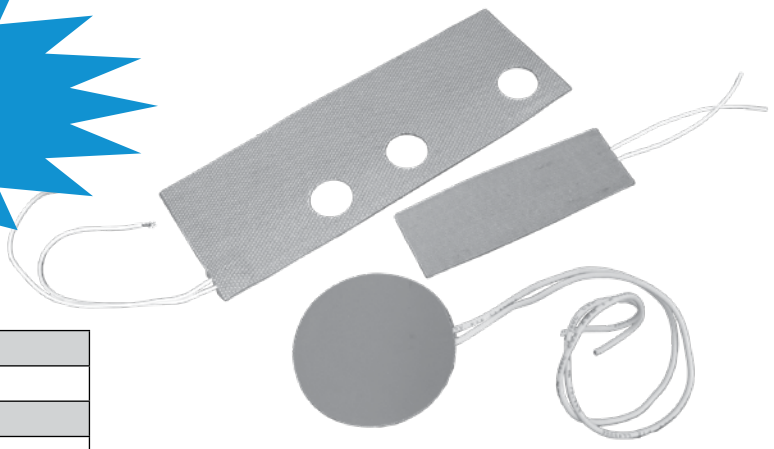
Part Number	Type	AMPS	Configuration
B2M	Silicone Rubber Case	16	Straight Stem
A92M	Silicone Rubber Case	16	90° Angle Stem
B3M	Aluminum Case	25	Straight Stem
A93M	Aluminum Case	25	90° Angle Stem

Silicone Rubber Heaters

Fiberglass reinforced Silicone Rubber Heaters are moisture and chemical resistant. Although thin and flexible, Silicone Rubber Heaters have a rugged construction and can be made to adhere to practically any surface. These heaters can accommodate holes and cutouts, and can come with a PSA back or a thermostat. Silicone Rubber Heaters are suitable for temperatures below 500°F.

C.S.A. Certified!

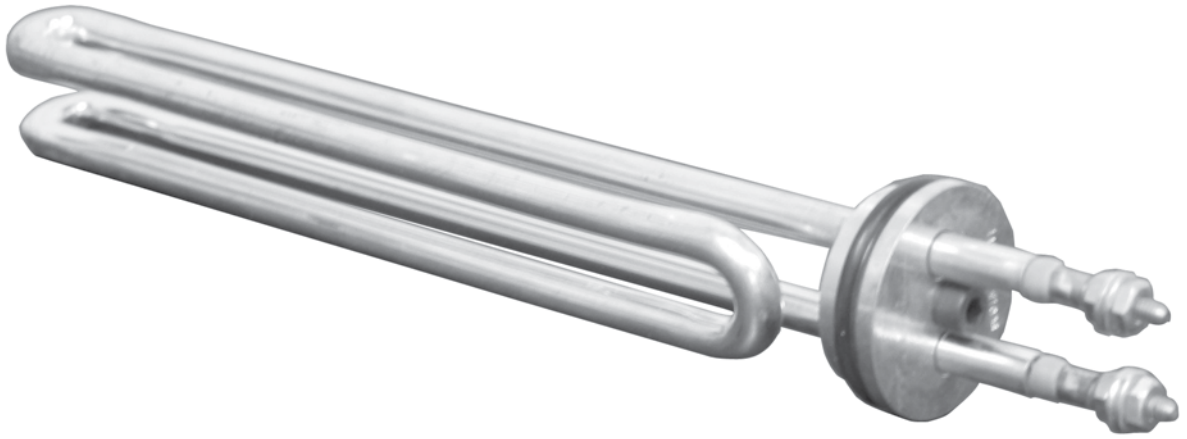
Call DME for Your Custom Silicone Heater!



Specifications

Max. Size	38″ × 98″
Thickness	0.060″
Max. Temp.	450°F
Max. Voltage	480 VAC
Wattage	+5/–10%
Std. Lead Wire	12″ PTFE Insulated
Dielectric Strength	1000 VAC

Immersion Heaters

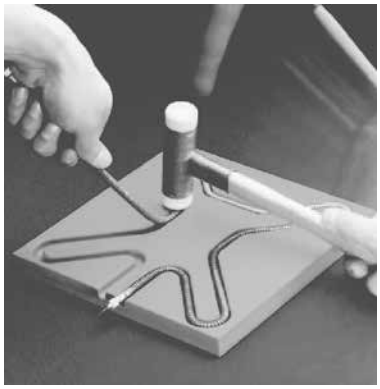


Part Number	Description
30700	Immersion Heater #09–019A, 115V, 650W
30701	Immersion Heater #09–019B, 115V, 1000W
30702	Immersion Heater #09–019C, 115V, 2160W

IMMERSION HEATERS

Important/Caution: Heated section MUST be inside of the groove. A small portion of the unheated section may be inside of the groove.
Any heated section outside and exposed to open air will fail. Also the 30mm cold section on each end MUST NOT be bent.

hotset



Disappointed by downtime and waiting for your tubular heater?

- Reduce costly, unnecessary downtime
- Reduce your stocking requirements
- Eliminate tooling or setup costs
- Tap in place with a rubber mallet
- Order today, resume manufacturing tomorrow!

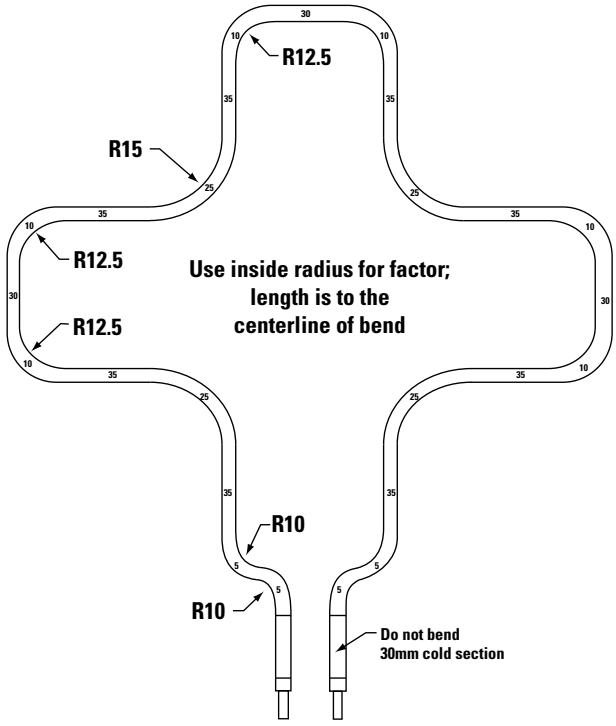
Easily select the correct 8.0mm Hotflex® flexible tubular heater

1. Measure and add total lengths in each category for the diameter that applies to your application.

8.0mm groove ø

	Totals		
2. Length of each straight section		× 1 =	a
3. Length of each 10mm radius		× .92=	b
4. Length of each 12.5mm radius		× .93=	c
5. Length of each 15mm radius		× .94=	d
6. Length of each>15mm radius		× .96=	e
7. Add lines a,b,c,d and e	+		
8. Add 60mm for the cold section (30mm + 30mm)	+ 60		
9. Round this number down to the nearest 50mm increment			

This is your Hotflex® part number **HTFLX** ____ **MM**



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Specifications

Heated flexible stainless steel sheath
Max. operating temp. = 1292°F
Min. bending radius = 10mm
Max. voltage = 250V
Max. current = 25A
High-voltage resistance (cold) = 1000 VAC
Current leakage (cold) ≤ 0.5mA at 253 VAC
Insulation resistance (cold) ≥ 5Mohm at 500 VDC
Ø tolerance = ± 0.1mm
Length tolerance = ± 1.5%
Wattage tolerance = ± 10%
Surface loading up to 15W/cm²

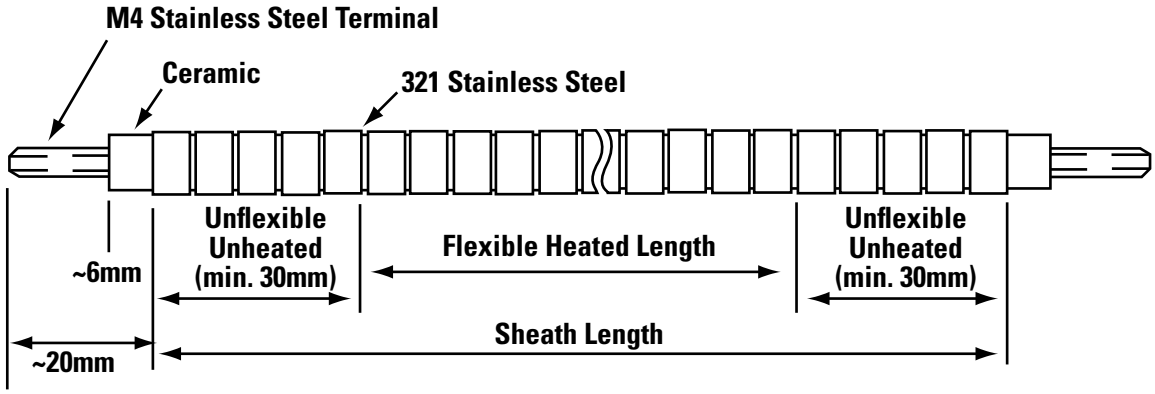
Flexible Tubular Heaters

Diameter: 8.0mm (0.315″)
Voltage: 240 VAC
Unheated: 30.0mm (1.18″) each end
Connection: M4 thread w/ hardware (type B)

Part Number	Sheath Length	Heated Length	Sheath Length	Heated Length	Wattage
HTFLX300MM	300mm	240mm	11.81″	9.45″	660
HTFLX350MM	350mm	290mm	13.78″	11.42″	675
HTFLX400MM	400mm	340mm	15.75″	13.39″	795
HTFLX450MM	450mm	390mm	17.72″	15.35″	910
HTFLX500MM	500mm	440mm	19.69″	17.32″	1025
HTFLX550MM	550mm	490mm	21.65″	19.29″	1145
HTFLX600MM	600mm	540mm	23.62″	21.26″	1260
HTFLX1200MM	1200mm	1140mm	47.24″	44.88″	2665
HTFLX1250MM	1250mm	1190mm	49.21″	46.85″	2780
HTFLX1300MM	1300mm	1240mm	51.18″	48.82″	2895
HTFLX1350MM	1350mm	1290mm	53.15″	50.79″	3015
HTFLX1400MM	1400mm	1340mm	55.12″	52.76″	3130
HTFLX1450MM	1450mm	1390mm	57.09″	54.72″	3245
HTFLX1500MM	1500mm	1440mm	59.06″	56.69″	3365

NOT AVAILABLE

PLEASE SEE HOTRUNNER CATALOG



Down and waiting for your tubular heater?
Place your order today, resume manufacturing tomorrow!

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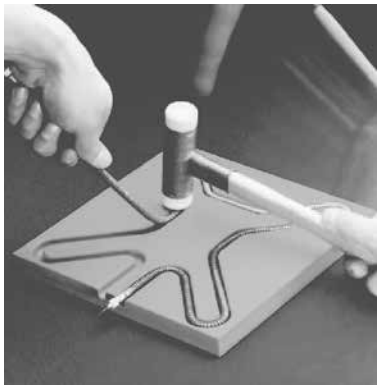
hotset



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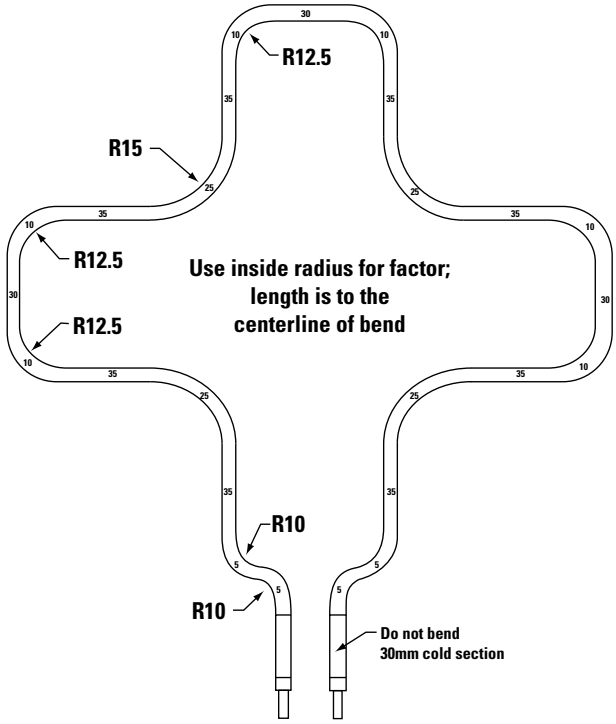
- Tap in place with a rubber mallet
- Order today, resume manufacturing tomorrow!

Easily select the correct 8.5mm Hotflex® flexible tubular heater

1. Measure and add total lengths in each category for the diameter that applies to your application.

8.5mm groove ø

	Totals		
2. Length of each straight section		× 1 =	a
3. Length of each 10mm radius		× .94=	b
4. Length of each 12.5mm radius		× .95=	c
5. Length of each 15mm radius		× .95=	d
6. Length of each>15mm radius		× .96=	e
7. Add lines a,b,c,d and e		+	
8. Add 60mm for the cold section (30mm + 30mm)		+ 60	
9. Round this number down to the nearest 50mm increment			
This is your Hotflex® part number	**HF85**		



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Specifications

Heated flexible stainless steel sheath
Max. operating temp. = 1292°F
Min. bending radius = 10mm
Max. voltage = 250V
Max. current = 25A
High voltage resistance (cold) = 1000 VAC

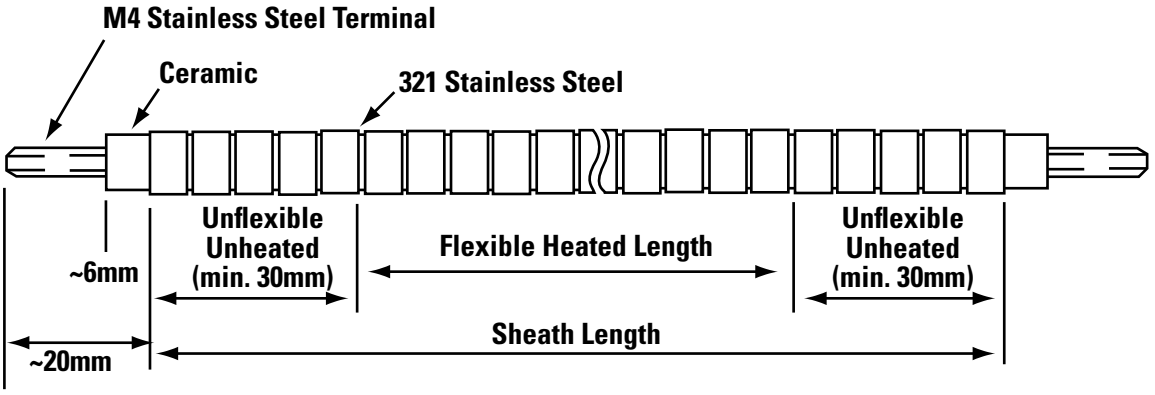
Current leakage (cold) ≤ 0.5mA at 253 VAC
Insulation resistance (cold) ≥ 5Mohm at 500 VDC
Ø tolerance = ± 0.1mm
Length tolerance = ± 1.5%
Wattage tolerance = ± 10%
Surface loading up to 15W/cm²

Diameter: 8.5mm (0.334")
Voltage: 230 VAC
Unheated: 30.0mm (1.18") each end
Connection: M4 thread w/ hardware (type B)

Part Number	Sheath Length	Heated Length	Sheath Length	Heated Length	Wattage
HF85350	350mm	290mm	13.78"	11.42"	750
HF85500	500mm	440mm	19.69"	17.32"	1150
HF851050	1050mm	990mm	41.34"	38.98"	2800
HF851100	1100mm	1040mm	43.31"	40.94"	2930
HF851150	1150mm	1090mm	45.28"	42.91"	3060
HF851200	1200mm	1140mm	47.24"	44.88"	3190

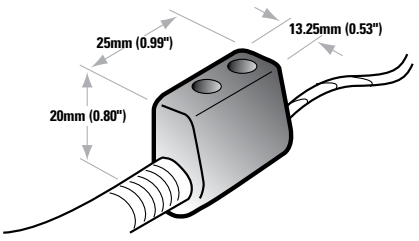
NOT AVAILABLE

PLEASE SEE HOTRUNNER CATALOG



Plug 'n' Heat Ceramic Lead Adapter

- Heat resistant to 230°C (intermittent to 280°C)
- Accepts 12/14 AWG wire
- Two required to terminate both ends of Hotflex®
- Part Number PLUGNHEAT



Down and waiting for your tubular heater?
Place your order today, resume manufacturing tomorrow!

70 & 80 Series

70 Series Mini Coil Heaters offer a very long life solution to precision-heating applications such as hot runner systems. The hermetically sealed construction prevents moisture from entering the heater, resulting in very long life and long-term resistance stability. A standard resistance tolerance of ± 2% produces excellent cavity-to-cavity repeatability in runnerless systems and is easier to control than more loosely toleranced heaters. The heater's nickel sheath is much more efficient for heat transfer than the stainless steel and Inconel sheaths used by other manufacturers, and makes the cold leads more flexible for ease in routing through wiring channels.

MINI COIL HEATERS

Specifications

Dielectric strength – 800 VAC
Current leakage – <0.1 mA at 240 VDC (cold)
Insulation resistance – >100 MΩ at 500 VDC (cold)
Cable diameter – 0.055″ (1.4mm)

Standard Features

Hermetic seal
72″ insulated leadwire
200 Series nickel sheath

CAM OPERATED - Mini Coil Heaters

Order Number	OEM Number	Rosemount Number	Inside Diameter	Length	Watts at 240 Volts
70A10	534234	904FE-101	¾″	1.2″	149
70A20	534233	904FE-131	¾″	1.2″	268

5″ & 7″ lead lengths

TWIN SCREW - Mini Coil Heaters

Order Number	OEM Number	Rosemount Number	Inside Diameter	Length	Watts at 240 Volts
70B10	520156	904EN/EJ101	¾″	1.2″	149
70B20	521334	904EN/EJ/FB131	¾″	1.2″	268
70B40	n/a	904EN/EJ/FB141	⅞″	1.2″	268

5″ & 7″ lead lengths

WEDGE STYLE AXIAL - Clamp Heaters

Order Number	OEM Number	Rosemount Number	Inside Diameter	Length	Watts at 240 Volts
80A10	534234	n/a	0.75	1.2″	240
80A20	534233	n/a	0.75	1.2″	240

5″ & 7″ lead lengths

Utilizing the same technology as our 70 Series, the 80 Series, larger cross-sectional area results in exceptional electrical properties. As with the 70 Series heaters, the hermetically sealed construction prevents moisture from entering the heater, resulting in very long life and long-term resistance stability. A standard resistance tolerance of ± 3% (± 2% upon request) produces excellent cavity-to-cavity repeatability in hot runner systems and is easier to control than more loosely toleranced heaters. The flattened nickel sheath is much more efficient for heat transfer than the SS and Inconel sheaths used by other manufacturers which results in faster heat-up than even our 70 Series. 80 Series mini coil heaters are offered in a variety of sizes, wattages and clamping options. Standard diameters are .750″, .875″, & 1.000″; other sizes & wattages available on request.

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Standard Features

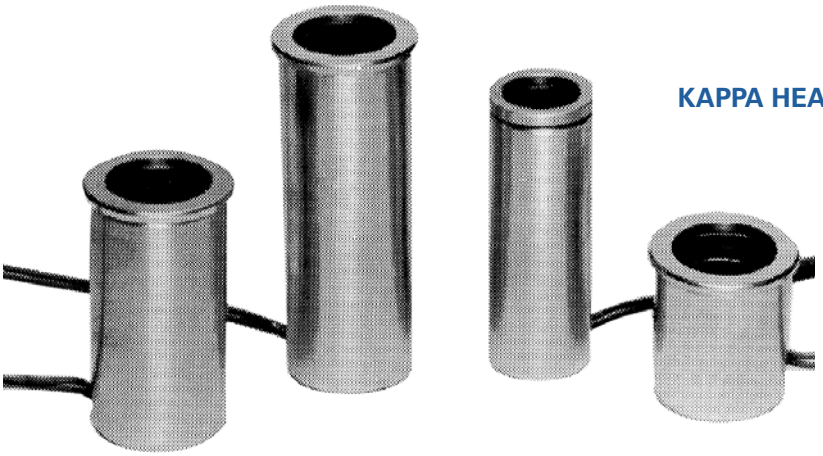
Hermetic seal
72″ insulated leadwire
200 Series nickel sheath (cold)

Specifications

Dielectric strength – 1000 VAC
Current leakage – <0.1 mA at 240 VDC (cold)
Insulation resistance – >100 MΩ at 500 VDC

Cable diameter – .075″ (1.9mm)

Kappa® Heaters



KAPPA HEATERS

The Kappa Series Heaters are constructed with a nickel-plated copper inner sleeve and a stainless outer sleeve. The heater is tightly sandwiched between these sleeves eliminating the heat transfer problems associated with other dual-sleeved designs. The materials used direct the heat inward toward the nozzle, resulting in a very efficient heater with even heat distribution. The tightly-toleranced I.D. allows a slip fit with no clamping required.

Features

- Slip fit, no clamp required
- Very long life
- Efficient
- Optimum heat distribution
- Profiled heating available
- Low profile

Specifications

- Over 100 watts/in^2 possible
- 5- and 7-inch cold leads standard
- ± .0005 inch I.D. tolerance
- ± 2% resistance tolerance
- 72-inch lead wires standard
- 0.130" wall thickness

Part Number	OEM P/N	I.D.	Length	Wattage	Volts
75K75	534975	19.05mm	30mm	220W	240V
75K77	534977	19.05mm	50mm	220W	240V
75-400	535181	Cap			

- Widely used throughout the industry as a rugged dependable heat source
- High-quality materials and craftsmanship
- 5 diameters offered as standard
- 12″ standard high-temperature leads

CATRIDGE HEATERS-CH

Diameter	Sheath Length	Volts	Watts	Watt Density	Part Number
¼″ (.246″ ± .002″)	1½″	120	75	94	**CH41512-75**
		240	75	94	**CH41524-75**
		120	100	125	**CH41512-100**
	2″	120	150	118	**CH42012-150**
		240	150	125	**CH42024-150**
	2½″	120	200	126	**CH42512-200**
		240	200	126	**CH42524-200**
	3″	120	200	105	**CH43012-200**
		120	250	127	**CH43012-250**
		240	250	127	**CH43024-250**
	4″	120	300	110	**CH44012-300**
		240	300	110	**CH44024-300**
	5″	240	350	110	**CH45024-350**
	6″	240	400	95	**CH46024-400**
⅜″ (.371″ ± .002″)	1″	120	70	88	**CH61012-70**
	1½″	120	100	86	**CH61512-100**
		240	150	128	**CH61524-150**
	2″	120	100	57	**CH62012-100**
		120	150	85	**CH62012-150**
		240	150	85	**CH62024-150**
		120	200	172	**CH62012-200**
		240	200	172	**CH62024-200**
	2¼″	120	175	86	**CH622512-175**
	2½″	240	165	75	**CH62524-165**
		240	185	80	**CH62524-185**
		240	200	85	**CH62524-200**
		240	250	106	**CH62524-250**
		240	300	117	**CH62524-300**
	3″	120	365	116	**CH63012-365**
		240	200	68	**CH63024-200**
		240	250	86	**CH63024-250**
		240	375	121	**CH63024-375**
	3½″	120	425	114	**CH63512-425**
		240	300	85	**CH63524-300**
		240	425	114	**CH63524-425**
	4″	120	500	116	**CH64012-500**
		240	250	62	**CH64024-250**
		240	350	85	**CH64024-350**
		240	500	117	**CH64024-500**

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Cartridge Heaters

Standard

- Widely used throughout the industry as a rugged dependable heat source
- High-quality materials and craftsmanship
- 5 diameters offered as standard

Diameter	Sheath Length	Volts	Watts	Watt Density	Part Number
3/8″ (.371″ ± .002″)	4½″	240	450	95	**CH64524-450**
	5″	120	650	118	**CH65012-650**
	5″	240	300	57	**CH65024-300**
	5½″	240	550	93	**CH65524-550**
	6″	240	500	78	**CH66024-500**
	6″	240	600	94	**CH66024-600**
	6″	240	800	120	**CH66024-800**
	7″	240	600	80	**CH67024-600**
	7″	240	800	104	**CH67024-800**
	8″	120	1090	121	**CH68012-1090**
	8″	240	600	69	**CH68024-600**
	8″	240	900	102	**CH68024-900**
	9″	240	1000	100	**CH69024-1000**
	10″	240	600	54	**CH610024-600**
	10″	240	1000	91	**CH610024-1000**
	10″	240	1350	119	**CH610024-1350**
	12″	240	750	55	**CH612024-750**
	12″	240	1000	75	**CH612024-1000**
½″ (.496″ ± .002″)	1½″	120	190	97	**CH81512-190**
	2″	120	295	126	**CH82012-295**
	2″	240	200	86	**CH82024-200**
	2″	240	300	128	**CH82024-300**
	2¼″	120	150	55	**CH822512-150**
	2¼″	240	250	92	**CH822524-250**
	2½″	120	390	120	**CH82512-390**
	2½″	240	200	64	**CH82524-200**
	2½″	240	250	80	**CH82524-250**
	2½″	240	300	98	**CH82524-300**
	2½″	240	400	128	**CH82524-400**
	3″	240	250	64	**CH83024-250**
	3″	240	300	77	**CH83024-300**
	3″	240	500	128	**CH83024-500**
	3½″	240	500	107	**CH83524-500**
	3½″	240	580	114	**CH83524-580**
	4″	120	685	117	**CH84012-685**
	4″	240	300	55	**CH84024-300**
	4″	240	500	92	**CH84024-500**
	4″	240	685	117	**CH84024-685**
	4½″	240	650	103	**CH84524-650**
	5″	120	880	118	**CH85012-880**
	5″	240	500	72	**CH85024-500**
	5″	240	750	108	**CH85024-750**

CATRIDGE HEATERS-CH

Standard

- Widely used throughout the industry as a rugged dependable heat source
- High-quality materials and craftsmanship
- 5 diameters offered as standard

CATRIDGE HEATERS-CH

Diameter	Sheath Length	Volts	Watts	Watt Density	Part Number
½″ (.496″ ± .002″)	5″	240	880	118	**CH85024-880**
	5½″	240	750	95	**CH85524-750**
	6″	240	500	58	**CH86024-500**
	6″	240	850	98	**CH86024-850**
	6″	240	1075	119	**CH86024-1075**
	6½″	240	900	96	**CH86524-900**
	7″	240	1000	98	**CH87024-1000**
	8″	240	750	64	**CH88024-750**
		240	1000	86	**CH88024-1000**
		240	1470	121	**CH88024-1470**
	8½″	120	1000	80	**CH88512-1000**
	9″	120	1000	76	**CH89012-1000**
	9½″	240	1250	88	**CH89524-1250**
	10″	120	1000	67	**CH810012-1000**
		240	1500	100	**CH810024-1500**
		240	1860	122	**CH810024-1860**
	10½″	240	1500	96	**CH810524-1500**
	11″	240	1750	106	**CH811024-1750**
	12″	120	1000	56	**CH812012-1000**
		240	1500	84	**CH812024-1500**
		240	2000	112	**CH812024-2000**
		240	2200	122	**CH812024-2250**
⅝″ (.621″ ±.002″)	2″	240	200	68	**CH102024-200**
		240	250	73	**CH102024-250A**
		240	250	85	**CH102024-250B**
		240	365	103	**CH102024-365**
	2½″	240	400	102	**CH102524-400**
	3″	120	600	109	**CH103012-600**
		240	250	52	**CH103024-250**
		240	500	104	**CH103024-500**
	4″	120	850	114	**CH104012-850**
		240	500	73	**CH104024-500**
		240	750	110	**CH104024-750**
	4½″	240	750	96	**CH104524-750**
	5″	240	500	57	**CH105024-500**
		240	750	86	**CH105924-750**
		240	1000	114	**CH105024-1000**
	5½″	240	750	82	**CH105524-750**
	6″	120	1325	117	**CH106012-1325**
		240	850	79	**CH106024-850**
		240	1000	93	**CH106024-1000**
		240	1325	117	**CH106024-1325**

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Cartridge Heaters

Standard

- Widely used throughout the industry as a rugged dependable heat source
- High-quality materials and craftsmanship
- 5 diameters offered as standard
- 12″ standard high-temperature leads

CATRIDGE HEATERS-CH

Diameter	Sheath Length	Volts	Watts	Watt Density	Part Number
5/8″ (.621″ ± .002″)	7″	240	800	104	**CH107024-800**
		120	1590	119	**CH107012-1590**
		240	1000	78	**CH107024-1000**
		240	1590	119	**CH107024-1590**
	7½″	240	1000	73	**CH107524-1000**
	8″	120	1825	120	**CH108012-1825**
		240	1000	68	**CH108024-1000**
		240	1200	82	**CH108024-1200**
		240	1500	102	**CH108024-1500**
		240	1825	120	**CH108024-1825**
	9″	240	1250	75	**CH109024-1250**
	10″	240	1000	54	**CH1010024-1000**
	10″	240	1500	81	**CH1010024-1500**
	10″	240	2325	121	**CH1010024-2325**
	12″	240	1500	66	**CH1012024-1500**
	12″	240	2000	89	**CH1012024-2000**
	12″	240	2800	121	**CH1012024-2800**
3/4″ (.746″ ± .002″)	2″	120	200	57	**CH122012-200**
	2½″	240	350	74	**CH122524-350**
	3″	120	725	168	**CH123012-725**
	3″	240	400	68	**CH123024-400**
	3″	240	500	85	**CH123024-500**
	3″	240	600	102	**CH123024-600**
	3″	240	725	109	**CH123024-725**
	3½″	240	550	72	**CH123524-550**
	4″	240	500	61	**CH124024-500**
	4″	240	750	91	**CH124024-750**
	4″	240	1000	117	**CH124024-1000**
	4″	240	1025	114	**CH124024-1025**
	4½″	240	875	94	**CH124524-875**
	5″	240	850	80	**CH125024-850**
	5″	240	1000	95	**CH125024-1000**
	5″	240	1300	115	**CH125024-1300**
	5½″	240	900	77	**CH125524-900**
	6″	240	1000	77	**CH126024-1000**
	6″	240	1250	96	**CH126024-1250**
	6½″	240	1250	88	**CH126524-1250**

High Watt Density

- Widely used throughout the industry as a rugged dependable heat source
- High-quality materials and craftsmanship
- 5 diameters offered as standard

Diameter	Sheath Length	Volts	Watts	Watt Density	Part Number
¾″ (.746″ ± .002″)	7″	240	1000	66	**CH127024-1000**
	7″	240	1500	98	**CH127024-1500**
	8″	240	1750	100	**CH128024-1750**
	8″	240	2000	114	**CH128024-2000**
	8″	240	2200	120	**CH128024-2200**
	9″	240	1800	90	**CH129024-1800**
	9″	240	2000	100	**CH129024-2000**
	10″	240	2000	90	**CH1210024-2000**
	10″	240	2250	112	**CH1210024-2250**
	12″	240	1500	55	**CH1212024-1500**

Watlube

Cartridge Heater Release and Heat Transfer Agent

A protective lubricant for use when installing any cartridge heater. It provides a tighter fit, thus improving thermal conductance, permitting higher watt densities and extending heater life.

As a barrier to high temperature oxidation, it assures easy removal of the heater after extended service.

Simple to apply. Avoid contact with leads or end plug.

Size	Part Number
4 oz.	**WATLUBE**

WATLUBE

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Cartridge Heaters

Premium quality Cartridge Heaters - Incalloy® sheath provides optimum heat transfer.

12″ standard glass covered leads

Delivery: Standard leads from stock. Alternative lead terminations shipped within 72 hours.

PREMIUM CARTRIDGE HEATERS

Length	Volts	Watts	Watts /Sq. In.	Part Number
⅛″ diameter (nominal) actual 0.122″± 0.002″				
1¼″	120	25	87	**C1E14**
	120	50	174	**C1E13**
	240	35	113	**C1E42**
1½″	120	30	78	**C1J5**
	120	60	156	**C1J6**
2″	120	50	87	**C2A4**
	120	100	174	**C2A5**
¼″ diameter (nominal) actual 0.246″± 0.002″				
1″	120	80	208	**E1A51**
	120	100	260	**E1A52**
	120	150	390	**E1A53**
	240	100	250	**E1A66**
1¼″	120	75	130	**E1E41**
	120	100	173	**E1E42**
	120	150	260	**E1E43**
	240	225	390	**E1E61**
1½″	120	50	65	**E1J39**
	120	100	130	**E1J40**
	120	150	195	**E1J41**
	240	175	228	**E1J49**
	120	200	260	**E1J42**
	240	200	260	**E1J52**
	240	250	325	**E1J35**
2″	120	80	68	**E2A136**
	120	100	87	**E2A55**
	240	125	108	**E2A82**
	120	150	130	**E2A56**
	240	150	130	**E2A77**
	120	200	173	**E2A57**
	240	200	173	**E2A50**
	120	250	217	**E2A72**
	240	250	215	**E2A76**
	240	300	260	**E2A83**
2½″	120	250	159	**E2J80**
	240	250	159	**E2J49**
3″	120	100	52	**E3A48**
	120	200	104	**E3A49**
	240	200	104	**E3A60**
	240	250	128	**E3A124**
	120	300	156	**E3A50**
	240	300	156	**E3A51**
4″	120	100	37	**E4A28**
	120	200	74	**E4A29**
	240	200	74	**E4A32**

Length	Volts	Watts	Watts /Sq. In.	Part Number
¼″ diameter (cont) actual 0.246″± 0.002″				
4″	120	300	111	**E4A30**
	240	300	111	**E4A6**
4½″	120	200	64	**E4J30**
5″	240	350	101	**E5A45**
	120	400	113	**E5A57**
	240	400	113	**E5A34**
6″	240	400	94	**E6A46**
⅜″ diameter (nominal) actual 0.371″± 0.002″				
1″	120	55	95	**G1A71**
	120	100	172	**G1A29**
	120	150	259	**G1A38**
	240	200	344	**G1A83**
1¼″	120	100	115	**G1E91**
	120	125	144	**G1E74**
	120	150	172	**G1E92**
	240	150	172	**G1E93**
	120	200	230	**G1E94**
	240	200	230	**G1E95**
	120	400	426	**G1E99**
1 5⁄16″	120	100	104	**G1F13**
	240	100	104	**G1F15**
	120	150	160	**G1F17**
1⅜″	240	160	151	**G1G23**
1 7⁄16″	120	100	94	**G1H6**
1½″	120	50	43	**G1J25**
	120	75	65	**G1J70**
	120	80	68	**G1J66**
	120	100	86	**G1J59**
	240	100	86	**G1J110**
	240	125	106	**G1J182**
	120	150	129	**G1J31**
	240	150	129	**G1J39**
	120	200	173	**G1J85**
	240	200	173	**G1J73**
	120	250	216	**G1J86**
	240	250	216	**G1J54**
1¾″	120	125	86	**G1N45**
	120	175	122	**G1N46**
	120	250	172	**G1N43**
	240	250	172	**G1N32**
1 13⁄16″	240	150	98	**G1P14**
	120	200	129	**G1P15**
	240	250	161	**G1P11**
1⅞″	120	250	152	**G1R14**

It is recommended that Watlube Heat Transfer Agent & Release Compound be used to improve thermal conductivity, reduce hot spots and increase heater life.

PREMIUM CARTRIDGE HEATERS

Length	Volts	Watts	Watts /Sq. In.	Part Number
⅜″ diameter (nominal) actual 0.371″± 0.002″				
2″	120	50	29	**G2A53**
	120	75	42	**G2A192**
	120	100	57	**G2A84**
	240	100	57	**G2A76**
	120	150	86	**G2A56**
	240	150	86	**G2A81**
	120	200	115	**G2A127**
	240	200	115	**G2A37**
	120	250	144	**G2A47**
	240	250	144	**G2A73**
	120	300	172	**G2A139**
	240	300	172	**G2A98**
	120	400	230	**G2A153**
	240	400	230	**G2A146**
	120	500	282	**G2A95**
	240	500	282	**G2A97**
2⅛″	240	200	106	**G2C13**
2¼″	120	75	37	**G2E88**
	120	125	62	**G2E89**
	240	125	62	**G2E138**
	240	150	73	**G2E68**
	120	175	86	**G2E90**
	120	250	123	**G2E2**
	240	250	123	**G2E78**
	120	300	148	**G2E108**
	240	300	148	**G2E12**
	120	350	173	**G2E91**
	240	350	173	**G2E75**
2½″	120	200	87	**G2J110**
	240	200	87	**G2J81**
	120	250	108	**G2J46**
	240	250	108	**G2J80**
	120	300	130	**G2J118**
	240	300	130	**G2J119**
	120	400	174	**G2J26**
	240	400	174	**G2J146**
	120	500	216	**G2J109**
	240	500	216	**G2J52**
2 13⁄16″	120	60	122	**G2P9**
	120	250	92	**G2P3**
	240	300	110	**G2P5**
3″	120	100	100	**G3A55**
	240	100	100	**G3A137**
	120	150	150	**G3A121**
	120	200	200	**G3A61**
	240	200	200	**G3A39**
	120	250	250	**G3A52**
	240	250	250	**G3A54**
	120	300	300	**G3A73**
	240	300	300	**G3A92**

Length	Volts	Watts	Watts /Sq. In.	Part Number
⅜″ diameter (cont) actual 0.371″± 0.002				
3″	120	400	400	**G3A44**
	240	400	400	**G3A65**
	120	500	500	**G3A119**
	240	500	500	**G3A120**
	240	600	600	**G3A133**
3 5⁄16″	120	500	152	**G3F24**
3½″	120	250	72	**G3J77**
	240	250	72	**G3J65**
	120	300	87	**G3J87**
	240	300	87	**G3J68**
	120	500	144	**G3J22**
	240	500	144	**G3J63**
3 3⁄16″	120	150	38	**G3P8**
	240	500	128	**G3P3**
4″	120	125	31	**G4A54**
	240	125	31	**G4A163**
	120	150	37	**G4A78**
	120	175	43	**G4A191**
	120	250	62	**G4A40**
	240	250	62	**G4A87**
	120	300	74	**G4A94**
	240	300	74	**G4A95**
	120	400	99	**G4A48**
	240	400	99	**G4A44**
	240	450	109	**G4A65**
	120	500	123	**G4A96**
	240	500	123	**G4A92**
	120	550	134	**G4A200**
4¼″	240	300	67	**G4E25**
	240	750	167	**G4E15**
4½″	120	300	65	**G4J54**
	240	300	65	**G4J33**
	120	500	108	**G4J55**
	240	500	108	**G4J37**
4 13⁄16″	240	300	59	**G4P11**
	240	500	98	**G4P3**
5″	120	150	29	**G5A68**
	240	150	29	**G5A56**
	120	300	58	**G5A69**
	240	300	58	**G5A70**
	120	500	96	**G5A38**
	240	500	96	**G5A71**
	240	750	144	**G5A67**
	240	1000	192	**G5A115**
5¼″	240	200	45	**G5E16**
5½″	240	600	104	**G5J36**
	240	1000	173	**G5J45**
6″	120	200	31	**G6A80**
	120	250	39	**G6A40**
	240	250	39	**G6A92**

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Cartridge Heaters

Premium quality Cartridge Heaters - Incalloy® sheath provides optimum heat transfer.

12″ standard glass covered leads

Delivery: Standard leads from stock. Alternative lead terminations shipped within 72 hours.

PREMIUM CARTRIDGE HEATERS

Length	Volts	Watts	Watts /Sq. In.	Part Number
⅜″ diameter (cont) actual 0.371″± 0.002″				
6″	120	400	63	**G6A81**
	240	400	63	**G6A82**
	120	500	79	**G6A125**
	240	500	79	**G6A59**
	120	600	94	**G6A56**
	240	600	94	**G6A51**
	240	750	117	**G6A46**
	240	1000	157	**G6A83**
6½″	240	600	86	**G6J23**
	240	1000	144	**G6J33**
7″	120	250	33	**G7A40**
	240	250	33	**G7A32**
	240	500	65	**G7A30**
	120	600	80	**G7A41**
	240	600	80	**G7A42**
	240	1000	133	**G7A43**
7½″	240	600	74	**G7J27**
	240	1000	124	**G7J28**
7 13/16″	240	750	87	**G7P5**
8″	120	300	34	**G8A54**
	240	300	34	**G8A47**
	120	400	45	**G8A109**
	120	500	58	**G8A81**
	240	500	58	**G8A32**
	120	600	69	**G8A53**
	240	600	69	**G8A37**
	240	700	79	**G8A98**
	240	1000	115	**G8A45**
8⅝″	240	500	52	**G8L3**
9″	240	1000	100	**G9A37**
9½″	240	600	57	**G9J20**
	240	1000	96	**G9J12**
10″	120	400	36	**G10A48**
	120	600	54	**G10A35**
	240	600	54	**G10A31**
	240	1000	91	**CH610024-1000**
10 13/16″	240	375	31	**G10P5**
12″	120	400	30	**G12A45**
	120	600	45	**G12A29**
	240	600	45	**G12A46**
	240	1000	75	**G12A47**
12 13/16″	240	1000	69	**G12P3**

Length	Volts	Watts	Watts /Sq. In.	Part Number
½″ diameter (cont) actual 0.496″± 0.002″				
1″	120	50	65	**J1A30**
	120	150	193	**J1A31**
1¼″	120	50	43	**J1E50**
	120	125	107	**J1E51**
	240	125	107	**J1E58**
	240	200	172	**J1E52**
	240	250	212	**J1E88**
1½″	120	50	32	**J1J47**
	120	150	97	**J1J48**
	240	150	97	**J1J96**
	120	200	128	**J1J59**
	240	200	128	**J1J38**
2″	120	75	32	**J2A80**
	120	200	86	**J2A49**
	240	200	86	**J2A75**
	120	250	108	**J2A85**
	240	250	108	**J2A71**
	120	300	128	**J2A95**
	240	300	128	**J2A96**
	120	400	171	**J2A81**
	240	400	171	**J2A82**
2¼″	120	75	28	**J2E86**
	120	125	46	**J2E87**
	120	250	92	**J2E56**
	240	250	92	**J2E69**
	120	400	147	**J2E114**
	240	400	147	**J2E115**
	120	500	184	**J2E6**
	240	500	184	**J2E88**
2⅜″	120	100	34	**J2G35**
	240	100	34	**J2G28**
	120	250	86	**J2G34**
	240	250	86	**J2G37**
	120	500	172	**J2G36**
	240	500	172	**J2G38**
2½″	120	100	32	**J2J67**
	240	100	32	**J2J57**
	120	250	81	**J2J68**
	240	250	81	**J2J69**
	120	300	96	**J2J109**
	240	300	96	**J2J110**
	120	400	128	**J2J81**
	240	400	128	**J2J82**

It is recommended that Watlube Heat Transfer Agent & Release Compound be used to improve thermal conductivity, reduce hot spots and increase heater life.

PREMIUM CARTRIDGE HEATERS

Length	Volts	Watts	Watts /Sq. In.	Part Number
½" diameter (cont.) actual 0.496"± 0.002"				
2½"	120	500	161	**J2J66**
	240	500	161	**J2J70**
2 9/16"	120	350	108	**J2K6**
	240	300	93	**J2K3**
2¾"	240	400	115	**J2N43**
	120	400	115	**J2N45**
3"	120	125	32	**J3A108**
	240	125	32	**J3A109**
	120	250	64	**J3A107**
	240	250	64	**J3A89**
	120	300	78	**J3A65**
	120	350	89	**J3A173**
	240	300	78	**J3A73**
	120	400	104	**J3A132**
	240	400	104	**J3A29**
	120	500	129	**J3A110**
	240	500	129	**J3A111**
	120	600	154	**J3A51**
	240	600	154	**J3A127**
	120	750	193	**J3A137**
	240	750	193	**J3A112**
	120	1000	254	**J3A79**
3½"	120	250	54	**J3J44**
	240	250	54	**J3J64**
	240	350	75	**J3J65**
	120	500	107	**J3J45**
	240	500	107	**J3J46**
	240	750	162	**J3J63**
3 13/16"	120	500	96	**J3P9**
	240	250	48	**J3P2**
4"	120	150	28	**J4A117**
	240	150	28	**J4A122**
	120	250	46	**J4A118**
	240	250	46	**J4A90**
	120	300	56	**J4A63**
	240	300	56	**J4A26**
	120	350	65	**J4A1**
	240	350	65	**J4A103**
	120	400	74	**J4A139**
	240	400	74	**J4A68**
	120	500	92	**J4A16**
	120	550	100	**J4A242**
	240	500	92	**J4A92**
	120	750	138	**J4A198**
	240	750	138	**J4A119**
	240	1000	184	**J4A73**
4 5/16"	120	550	92	**J4F5**
4½"	120	550	80	**J4J69**
	240	500	80	**J4J57**
	120	750	120	**J4J70**

Length	Volts	Watts	Watts /Sq. In.	Part Number
½" diameter (cont.) actual 0.496"± 0.002"				
4½"	240	750	120	**J4J32**
4 13/16"	240	300	44	**J4P3**
	240	1000	148	**J4P6**
5"	120	200	29	**J5A85**
	240	200	29	**J5A74**
	120	350	50	**J5A86**
	240	350	50	**J5A63**
	120	400	58	**J5A98**
	240	400	58	**J5A46**
	120	500	72	**J5A52**
	240	500	72	**J5A45**
	120	750	108	**J5A121**
	240	750	108	**J5A72**
	240	1000	143	**J5A87**
5½"	240	200	25	**J5J38**
	120	500	64	**J5J43**
	240	500	64	**J5J33**
	240	650	83	**J5J69**
	120	750	97	**J5J44**
	240	750	97	**J5J45**
5¾"	120	700	86	**J5N6**
	240	700	86	**J5N8**
5 13/16"	240	300	36	**J5P10**
6"	120	250	29	**J6A114**
	240	250	29	**J6A171**
	240	300	35	**J6A66**
	240	350	41	**J6A119**
	120	500	59	**J6A115**
	240	500	59	**J6A94**
	120	750	88	**J6A99**
	240	750	88	**J6A90**
	120	1000	117	**J6A53**
	240	1000	117	**J6A36**
6½"	240	500	54	**J6J45**
	240	1000	108	**J6J27**
7"	120	250	25	**J7A79**
	120	500	50	**J7A80**
	240	500	50	**J7A57**
	120	600	60	**J7A50**
	240	600	60	**J7A95**
	240	1000	99	**J7A81**
7½"	240	500	46	**J7J25**
	240	1000	92	**J7J26**
8"	120	300	26	**J8A71**
	240	300	26	**J8A111**
	120	500	43	**J8A64**
	240	500	43	**J8A66**
	120	1000	86	**J8A84**
	240	1000	86	**J8A60**
	240	1500	129	**J8A100**

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Cartridge Heaters

Premium quality Cartridge Heaters - Incalloy® sheath provides optimum heat transfer.

12″ standard glass covered leads

Delivery: Standard leads from stock. Alternative lead terminations shipped within 72 hours.

PREMIUM CARTRIDGE HEATERS

Length	Volts	Watts	Watts /Sq. In.	Part Number
½″ diameter (cont.) actual 0.496″± 0.002″				
8″	240	2000	172	**J8A101**
8½″	240	300	24	**J8J39**
	240	500	40	**J8J30**
	240	1000	80	**J8J28**
9″	240	500	38	**J9A35**
	240	1000	76	**J9A58**
9½″	240	500	36	**J9J14**
	240	1000	72	**J9J12**
10″	120	500	34	**J10A61**
	240	500	34	**J10A62**
	120	1000	68	**J10A63**
	240	1000	68	**J10A42**
	240	1500	102	**J10A33**
	240	2000	136	**J10A64**
11″	240	1000	61	**J11A60**
12″	120	500	28	**J12A63**
	240	500	28	**J12A76**
	120	1000	56	**J12A40**
	240	1000	56	**J12A49**
	240	1500	84	**J12A37**
	240	2000	112	**J12A89**
14″	240	1000	48	**J14A41**
	240	2300	110	**J14A39**
15″	240	1500	66	**J15A19**
16″	240	1000	41	**J16A12**
18″	240	1500	55	**J18A19**
	240	1700	62	**J18A23**
⅝″ diameter (nominal) actual 0.621″±0.002″				
1¼″	120	50	34	**L1E26**
	120	200	137	**L1E24**
	120	250	171	**L1E27**
1½″	120	250	128	**L1J23**
	240	250	128	**L1J24**
2″	120	100	34	**L2A48**
	120	200	68	**L2A49**
	240	500	170	**L2A54**
2¼″	120	100	29	**L2E49**
	120	250	73	**L2E50**
	240	250	73	**L2E12**
	120	350	103	**L2E40**
	240	350	103	**L2E51**
2⅜″	120	280	77	**L2G18**
	240	280	77	**L2G19**
3″	120	150	31	**L3A81**

Length	Volts	Watts	Watts /Sq. In.	Part Number
⅝″ diameter (cont.) actual 0.621″± 0.002″				
3″	120	250	51	**L3A82**
	240	250	51	**L3A9**
	120	400	81	**L3A94**
	120	500	102	**L3A113**
	240	500	102	**L3A33**
	240	750	154	**L3A71**
3¾″	120	525	82	**L3N12**
	240	525	82	**L3N1**
4″	120	250	37	**L4A99**
	240	250	37	**L4A104**
	240	400	58	**L4A47**
	240	500	73	**L4A53**
	240	600	88	**L4A44**
	240	750	110	**L4A100**
	240	1000	146	**L4A71**
5″	120	250	28	**L5A76**
	240	250	28	**L5A107**
	240	500	57	**L5A24**
	240	750	86	**L5A31**
	240	1000	114	**L5A77**
5⅜″	120	800	84	**L5G3**
	240	800	84	**L5G1**
6″	120	300	28	**L6A28**
	240	300	28	**L6A64**
	240	500	47	**L6A73**
	240	750	70	**L6A70**
	240	1000	93	**L6A71**
	120	1500	139	**L6A163**
	240	1500	139	**L6A94**
6½″	120	500	43	**L6J43**
	240	500	43	**L6J55**
7″	120	500	39	**L7A42**
	240	500	39	**L7A15**
	240	1000	79	**L7A37**
	240	1500	118	**L7A12**
8″	120	500	34	**L8A96**
	240	500	34	**L8A46**
	240	850	58	**L8A115**
	240	1000	68	**L8A10**
	240	1500	102	**L8A37**
	240	2000	137	**L8A80**
10″	120	500	27	**L10A51**
	240	500	27	**L10A40**
	240	750	40	**L10A69**

PREMIUM CARTRIDGE HEATERS

It is recommended that Watlube Heater Release and Heat Transfer Agent be used to improve thermal conductivity, reduce hot spots and increase heater life (see below)

Length	Volts	Watts	Watts /sq.in.	Part Number
⅝" diameter (cont) actual 0.621" ± 0.002"				
10"	240	1000	54	**L10A52**
	240	1500	81	**L10A8**
	240	2000	108	**L10A50**
12"	120	500	22	**L12A81**
	240	500	22	**L12A80**
	240	900	40	**L12A102**
	120	1000	45	**L12A82**
	240	1000	45	**L12A34**
	120	1500	66	**L12A147**
	240	1500	67	**L12A39**
	240	2000	89	**L12A63**
14"	240	3700	140	**L14A21**
15"	240	750	27	**L15A35**
	240	2400	84	**L15A20**
	240	4000	141	**L15A41**
16"	240	2500	82	**L16A33**
	240	4500	148	**L16A40**
18"	240	1500	44	**L18A32**
	240	3000	87	**L18A34**
	240	4700	137	**L18A36**
20"	240	1500	40	**L20A19**
	240	3500	92	**L20A13**
	240	4700	123	**L20A14**
24"	240	2000	44	**L24A19**
	240	4700	102	**L24A14**
36"	240	3000	43	**L36A8**
¾" diameter (nominal) actual 0.746" ± 0.002"				
2"	120	200	49	**N2E8**
3"	120	250	43	**N3A11**
	240	500	85	**N3A12**
4"	120	250	31	**N4A16**
	240	500	61	**N4A17**
	240	1000	122	**N4A15**
5"	120	300	28	**N5A19**
	240	500	47	**N5A12**
	240	1000	95	**N5A20**
6"	120	500	39	**N6A19**
	240	500	39	**N6A20**
	240	1000	78	**N6A21**
	240	1500	116	**N6A82**
	240	2000	155	**N6A22**
7"	120	500	33	**N7A15**
	240	500	33	**N7A1**
	240	1000	66	**N7A16**
8"	120	500	28	**N8A19**
	240	500	28	**N8A20**
	240	1000	57	**N8A21**
	240	2000	114	**N8A22**
10"	240	1000	45	**N10A15**
	240	2000	90	**N10A14**

Length	Volts	Watts	Watts /sq.in.	Part Number
¾" diameter (cont) actual 0.621" ± 0.002"				
12"	240	1000	37	**N12A15**
	240	2000	74	**N12A24**
	240	4000	148	**N12A25**
13"	240	1000	34	**N13A26**
14"	240	1250	40	**N14A22**
	240	2500	79	**N14A20**
	240	4500	142	**N14A21**
15"	240	1500	44	**N15A26**
16"	240	1800	49	**N16A26**
	240	4700	129	**N16A18**
18"	240	2000	49	**N18A13**
	240	5000	122	**N18A15**
20"	240	1150	25	**N20A21**
	240	2250	49	**N20A22**
	240	5250	115	**N20A10**
24"	240	1375	25	**N24A24**
	240	2750	50	**N24A23**
	240	5500	100	**N24A13**
36"	240	2500	30	**N36A4**

Watlube

Cartridge Heater Release and Heat Transfer Agent

A protective lubricant for use when installing any cartridge heater. It provides a tighter fit, thus improving thermal conductance, permitting higher watt densities and extending heater life.

As a barrier to high temperature oxidation, it assures easy removal of the heater after extended service.

Simple to apply. Avoid contact with leads or end plug.

Size	Part Number
4 oz.	WATLUBE

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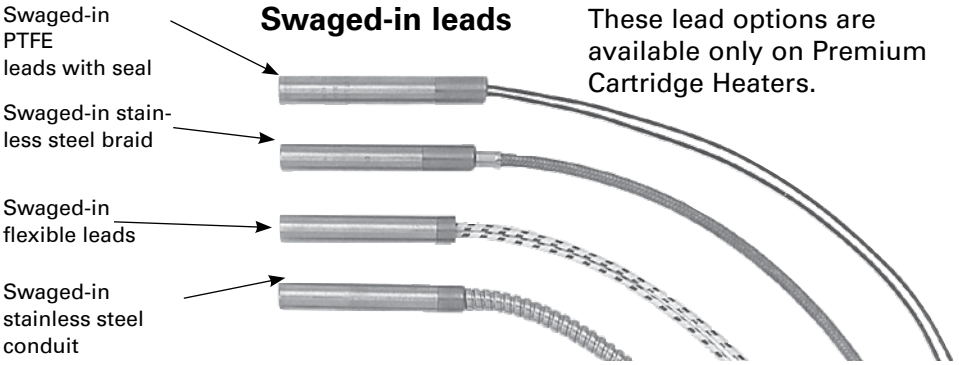
Cartridge Heaters

Lead Options

Swaged-in leads



These lead options are available only on Premium Cartridge Heaters.

For customers having special requirements, DME offers the lead options shown on these pages. These swaged-in, flexible leads offer a wide choice in terms of capacity, cost, size, durability and ease of installation. Available from stock in any diameter with any lead length.

These lead adaptations are of improved construction and will stand up to extra heavy usage. Unheated sections are reduced up to one-half the area, resulting in lower watt densities and consequent longer life. Leads are flexible over their full length.

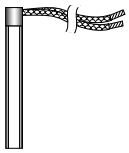
Modification Type	Length Dia.	Length Added to Heater	Std. Unheated Portion	Std. Lead Length
Swaged-in flex leads	all	3⁄16″	7⁄16″	10"
Swaged-in stainless steel braid	1⁄4″	3⁄8″	5⁄8″	14″
	3⁄8″	3⁄4″	1″	14″
	1⁄2″			
	5⁄8″			
	3⁄4″			
Swaged-in PTFE	all exc. 1⁄4″ dia.	3⁄4″	1″	10″
Swaged-in stainless steel conduit	1⁄4″	3⁄8″	5⁄8″	14″
	3⁄8″			
	1⁄2″			
	5⁄8″			
	3⁄4″			

Right Angle Swaged-In Leads

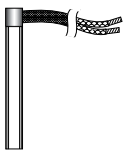
For applications where space is limited or confining, swaged-in flexible leads are also offered in right angle configuration with lead wires exiting at side of sheath.

These lead options are available only on Premium Cartridge Heaters.

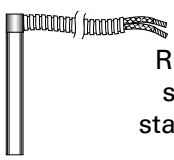
Modificaton Type	Dia.	Length added to heater	Unheated portion	Std. lead length
Rt. angle swaged-in flex leads	3⁄8″	3⁄8″	5⁄8″	10″
	others	7⁄16″	11⁄16″	
Rt. angle swaged-in stainless steel braid	3⁄8″	1⁄2″	3⁄4″	14″
	1⁄2″	9⁄16″	13⁄16″	
	5⁄8″			
	3⁄4″			
Rt. angle swaged-in stainless steel conduit	3⁄8″	1⁄2″	3⁄4″	14″
	1⁄2″	9⁄16″	13⁄16″	
	5⁄8″			



Right angle swaged-in flexible leads



Right angle swaged-in stainless steel braid



Right angle swaged-in stainless steel conduit

Thermocouple

- 36″ standard, high-temperature leads
- 48″ standard, J calibration thermocouple
- Pin leads with high-temperature sleeving

Diameter	Sheath Length	Volts	Watts	Part Number
¼″ .246″ (± .002″)	1½″	240	200	**CH41524-200T**
	1¾″	240	200	**CH417524-200T**
	2″	240	200	**CH42024-200T**
	2½″	240	200	**CH42524-200T**
	3″	240	200	**CH43024-200T**
	3½″	240	250	**CH43524-250T**
	4″	240	250	**CH44024-250T**
	5″	240	250	**CH45024-250T**
⅜″ .371″ (± .002″)	1½″	240	200	**CH61524-200T**
	1¾″	240	200	**CH617524-200T**
	1¾″	240	250	**CH617524-250T**
	2″	240	200	**CH62024-200T**
	2″	240	250	**CH62024-250T**
	2½″	240	250	**CH62524-250T**
	3″	240	260	**CH63024-260T**
	3″	240	300	**CH63024-300T**
	3½″	240	320	**CH63524-320T**
	3½″	240	350	**CH63524-350T**
	4″	240	370	**CH64024-370T**
	4½″	240	420	**CH64524-420T**
	5″	240	300	**CH65024-300T**
	5″	240	470	**CH65024-470T**
	5½″	240	525	**CH65524-525T**
	6″	240	575	**CH66024-575T**
	6½″	240	625	**CH66524-625T**
	7″	240	675	**CH67024-675T**
	7½″	240	724	**CH67524-724T**
	8″	240	775	**CH68024-775T**
	8½″	240	835	**CH68524-835T**
	9″	240	885	**CH69024-885T**
	9½″	240	940	**CH69524-940T**
	10″	240	990	**CH610024-990T**
½″ .496″ (± .002″)	1¾″	240	230	**CH817524-230T**
	2½″	240	280	**CH82524-280T**
	3″	240	500	**CH83024-500T**
	3½″	240	420	**CH83524-420T**
	4″	240	490	**CH84024-490T**
	4½″	240	550	**CH84524-550T**
	5″	240	625	**CH85024-625T**
	5½″	240	700	**CH85524-700T**
	6″	240	775	**CH86024-775T**
	6½″	240	850	**CH86524-850T**

CARTRIDGE HEATERS THERMO-COUPLE

F

Drum Heaters

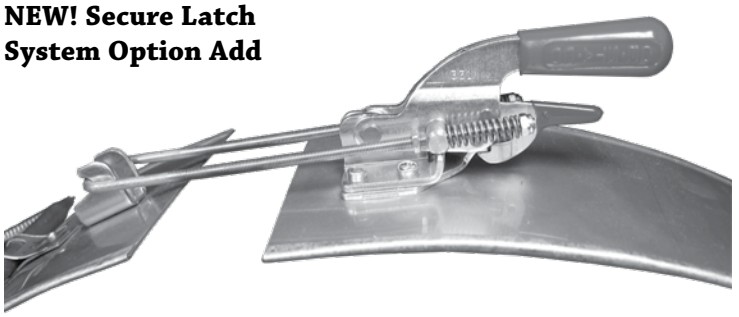
Our Drum Heater is a portable, lightweight heat source designed for standard drum sizes but versatile enough for use on any similar-sized vessel where quick, adjustable heating is required.

The watt density does not exceed 8.5, so it is suitable for most materials and solutions requiring heat for handling, dipping, coating or mixing.

Features

- Heavy-duty cord & plug on all models
- Rust-resistant stainless steel
- Lightweight, one-piece construction
- Minimum - maximum heat control
- New heavy-duty construction

NEW! Secure Latch System Option Add



Drum Capacity	Heater Model Number	Volts	Watts	I.D.	Width
45 IMP. GAL. 55 U.S. GAL.	D130120 D130240	120 240	1900 3000	22½″	5″
25 IMP. GAL. 30 U.S. GAL.	D140120 D140240	120 240	1900 2500	18″	5″
5 IMP. GAL. 6 U.S. GAL.	D135120 D135240	120 240	1500 1500	11″	5″

Part Number	Capacity	Volts/Watts
D130120	45 Gal. Metal Drum	120V/1900W
D130240	45 Gal. Metal Drum	240V/3000W
D135120	5 Gal. Metal Drum	120V/1500W
D135240	5 Gal. Metal Drum	240V/1500W
D140120	25 Gal. Metal Drum	120V/1900W
D140240	25 Gal. Metal Drum	240V/2500W

Aluminum & Bronze

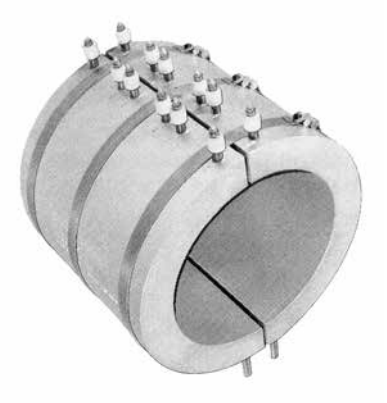
Cast Heaters are used to heat plastics injection molding and extrusion machinery, packaging machinery, sealer bars, laboratory heaters, hydraulic platens and many applications where durability and extended heater life is important.

Cast Heaters consist of high-quality tubular heaters cast into specific grades of non-ferrous alloys all chosen for excellent thermal conductivity properties.

Cast Heaters can be designed as band heaters, band heaters with cooling tubes, finned band heaters and platen heaters. The Cast Heaters can be supplied with strap lockup or flange lockup, armoured cable leads, terminal posts or protective terminal boxes.

Air-Cooled Finned Heaters

Cast aluminum finned heaters are designed to provide rapid cooling response and temperature control on air-cooled machines and are incorporated as original equipment by many extruder manufacturers.



Cylindrical heat and cool heaters for extrusion machinery

Platen heaters for packaging, food warming & die heating

Cylindrical finned heaters for air-cool extrusion machinery

Glue pots and pan heaters for industrial and food warming applications

F

Power Up/Power Down All Units-Fused and Ready to Mount!

Applications

- Nozzle band heaters
- Hot runners
- Band or cartridge

Features

- Compact and durable design
- Half the price of an electro-mechanical voltage controller
- Solid state reliability
- Low price, high quality

SCR POWER CONTROLS

Model 18TBP/TB Controls

Provide infinitely variable control of single-phase AC voltage to resistive heating elements. These controls are solid-state replacements for variable transformers, saturable core reactors, and electro mechanical contactors. Power Triacs replace contacts and brushes to control electric power without moving parts, and, when operated within their stated ratings for current, voltage, and temperature, have no known life expectancy rating.

Panel- or Chassis-Mount

Model 18TBP controls are compact, lightweight packages that employ single hole mounting to panels and enclosure doors. Model 18TB controls are designed for rear or rack mounting.

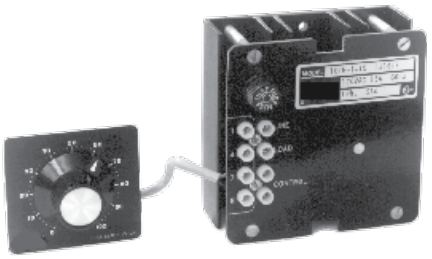
Performance Note

Triac power circuits may "slave" when multiple units are used on 240 VAC lines derived from three-phase mains. For optimum performance, use on single phase, 240 VAC derived from 3-wire, 120/240 VAC mains.

18TBP Series, single hole mounting to panels and enclosure doors

Part Number	Input Volts	Max AMPS	Output Voltage
18TBP1-15	120V	15 AMP	0–120
18TBP2-15	240V	15 AMP	0–240

Note: Use only factory-recommended fuses



Note: Use only factory-recommended fuses

Part Number	Input Volts	Max AMPS	Output Voltage
18TB1-25	120V	25 AMP	0–120
18TB2-25	240V	25 AMP	0–240

18TB Series designed for rear or rack mounting

18TP Series Features

- 5 and 10 AMP load capacity at 120 or 240 VAC
- Lighted ON/OFF switch
- Built-in "2 millisecond" fuse protection
- 6' power cord with plug
- NEMA standard 120 or 240 VAC receptacle
- Small size - only 4.7" × 3.3" × 2.5"
- Low price, high quality

Part Number	Input Volts	Max AMPS	Output Voltage
18TP1-10	120V	10 AMP	0–120
18TP2-10	240V	10 AMP	0–240

Temp/Process Controller

Fuzzy Pro™

Choose 1⁄16, 1⁄8 or 1⁄4 DIN

These units feature a 10 AMP relay!

Features

- PID - FUZZY or On/Off control
- Heating/cooling + 2 alarms
- Field input selection TC, RTD, linear
- Outputs relay, pulsed DC, 4–20 mAMPS
- Dual display- red/green + LED% output
- Self tuning with inhibited overshoot
- Low panel depth 3⅛" (80mm)
- 16 ramp/dwell segments option
- Heater saver power limit function
- Multiple alarms on a single output
- Scalable linear input
- Rapid cycling controls faster systems
- Customized operator interface
- Setpoint range limit
- Plug in from front
- Operator lockout security setting

TEMP/PROCESS CONTROLLER

DIN Size	Part Number	Output Type	Alarm or Cooling Output
1⁄16	**F16101**	Relay, SPBT 3A/240 VAC	Relay 10A/240V SPST
1⁄16	**F16201**	SSR Pulse/20 VDC/20mA	Relay 10A/240V SPST
1⁄8	**F18101**	Relay, SPST 3A/240 VAC	Relay 10A/240V SPST
1⁄4	**F14101**	Relay, SPST 3A/240 VAC	Relay 10A/240V SPST

Gentran Transducer

Plastic Melt Pressure Transducer GT76

Precise Pressure Measurement
Gentran Models GT72 and GT76 have non-linearity specifications of ± 0.5% and ± 1.0% of full scale BFSL, respectively. Repeatability for both models is better than 0.1% of full scale.

Easily Installed
These transducers can be installed directly into the extruder, melt pump or other pressure tap. All mating cable assemblies are terminated with spade lugs for simple electrical connection.

Industry Compatible
All Gentran products are configured to industry standards for effortless replacement of parts. We offer compatible units complete with flexible armor stems so that you can replace a transducer without disturbing your existing wiring or indicator configuration.

Versatility
Gentran offers various body lengths, thread dimensions and options for thermocouples. Integral, flexible armored cable is also available. For special applications, we can custom design unique configurations to fit your needs.

Rugged and Durable
Our units last up to six times longer than other units because of our thicker 17-4 PH stainless steel diaphragms that operate from 0 to 750°F.

Ordering Info

Typical Part Number

GT72	/6	J	C	D6	Z1	–10K

Transducer

Melt Pressure Transducer Model		Barrel Length		Thermocouple Type		Diaphragm Material		Wiring Options		"Z" Options		Pressure Range	
GT72	High Accuracy Unit ±0.5%	6	6 inch "A" Length	J	"J" Type	None	17-4 PH SST	None	Standard 6-pin Cannon Connector	None	Standard Unit	5C	0-500*
				K	"K" Type	C	Hard Chrome			Z1	18" Integral Flexible Armored Cable	1K	0-1,000*
				T	"T" Type	H	Hastelloy C-276					1.5K	0-1,500
GT76	Standard Accuracy Unit ±1.0%	12	12 inch "A" Length	R	"RTD" Type			D6	Bendix 6-pin Connector			3K	0-3,000
						I	Inconel 718			Z2	24" Integral Flexible Armored Cable	5K	0-5,000
						N	Titanium Nitride-TIN	D8	Bendix 8-pin Connector			7.5K	0-7,500
												10K	0-10,000
						NN	Double Coated TIN			Z3	30" Integral Flexible Armored Cable	15K	0-15,000
												20K	0-20,000*
												350BAR	0-350 BAR
												700BAR	0-700 BAR
												1400BAR	0-1400 BAR
												500KG	0-500 kg/cm²
												700KG	0-700 kg/cm²

Typical Part Number

72	04	02	–10

Cable Assembly

Cable Type		Transducer Type		Connector Type		Cable Length*	
72	Standard	04	No Thermocouple	02	Gentran	10	10 Feet
75	Armored			11	Bendix 8-pin (D8)	20	20 Feet
		64	"J" Type			40	40 Feet
		74	"K" Type	13	Bendix 6-pin (D6)		
		94	"T" Type				
		84	"RTD" Type				

*Other ranges available upon request.
*Special range.

Plastic Melt Pressure Transducer GT76

Specifications: GT72 & GT76

Performance Characteristics	Electrical Characteristics	Temperature Characteristics	Mechanical Characteristics
Standard Pressure Ranges: 0-1,500 psig, 0-3,000 psig, 0-5,000 psig, 0-10,000 psig, 0-15,000 psig, 0-350 BAR, 0-700 BAR, 0-1,400 BAR, 0-500 kg/cm² 0-700 kg/cm² **Special Ranges:** 0-500 psig, 0-1,000 psig, 0-20,000 psig Other ranges available upon request **Accuracy:** GT2: ±0.5% of full scale maximum (BFSL) GT76: ±1.0% of full scale maximum (BFSL) **Repeatability:** Within ± 0.1% of full scale maximum **Resolution:** Infinite **Overload Pressure:** 150% of rated range, no damage	**Sensor Type:** Bonded strain gauge, 4 Leg Wheatstone Bridge **Bridge Resistance:** 350 ohms, ±5.0% **Sensitivity:** 3.0 mV/V nominal (open circuit) **Zero Balance:** ±10.0% **Excitation:** 5-12 VDC or AC (RMS), maximum 15 Volts **External Shunt Callbration Resistor** Standard feature, options available. **Insulation Resistance:** >1,000 Mohms @ 50 VDC **Thermocouple:** Types J, K, and RTD available as an Internal option	**Diaphragm:** 0 to 750°F (–18 to 400°C) **Electrical Connector:** 0 to 250°F (–18 to 121°C) **Zero Drift:** ± 0.01% of full scale/°F ± .002% o full scale/°C **Sensitivity Drift:** ± 0.01% of full scale/°F ± 0.02% of full scale/°C	**Diaphragm Material:** Standard 17-4 PH Stainless steel, options include Hastelloy, hard chrome plate, Inconel 718 & titanium nitride **Pressure Fitting:** ½ inch-20 UNF-2A Metric m 18 x 1.5 optional custom options available

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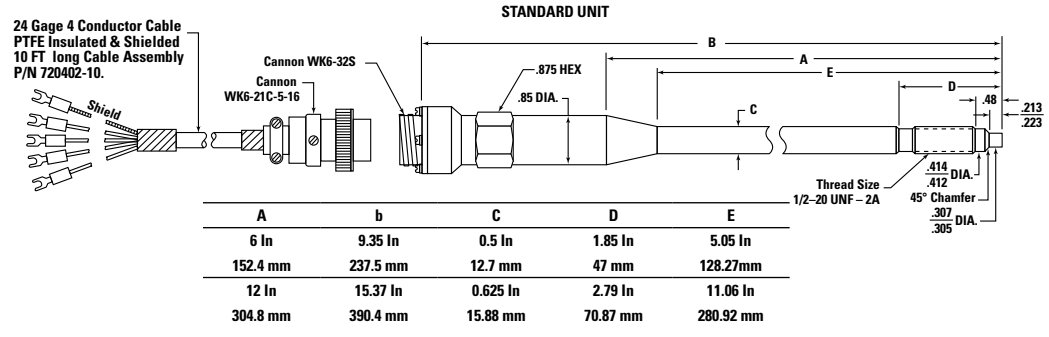
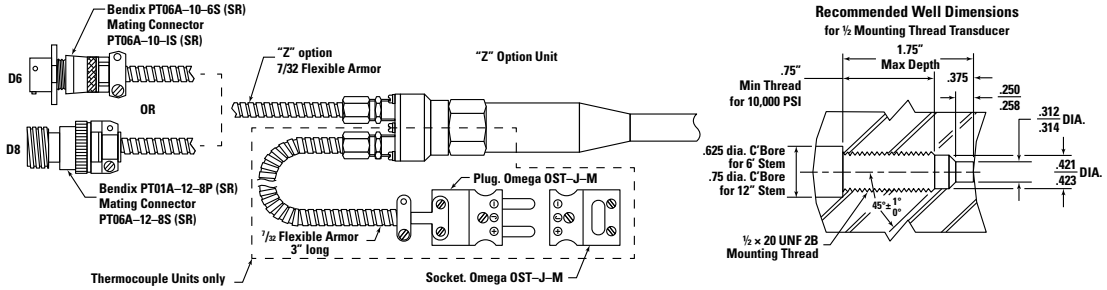
Dimensions



A	b	C	D	E
6 In	9.35 In	0.5 In	1.85 In	5.05 In
152.4 mm	237.5 mm	12.7 mm	47 mm	128.27mm
12 In	15.37 In	0.625 In	2.79 In	11.06 In
304.8 mm	390.4 mm	15.88 mm	70.87 mm	280.92 mm



Melt Pressure Gauges

Rigid Stem

Melt Pressure Gauge - Model ERTG

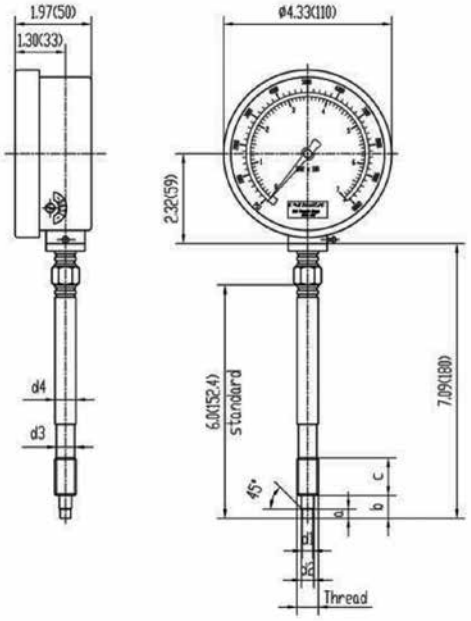
Melt Pressure Gauge Model ERTG is a totally mechanical device, requiring no power. This rugged, totally self-contained Melt Pressure Gauge is available in either 0–5,000 psi or 0–10,000 PSI ranges. This gauge allows the user to benefit from the improved efficiency and quality that goes along with melt pressure monitoring at an affordable price.

Melt Pressure Gauge Model ERTG comes standard with a 6" rigid stem, ½–20 UNF mounting thread.

Features & Benefits

- Requires no electrical power and is totally maintenance free
- All stainless steel construction
- Large 4" gauge head with safety glass can be rotated 300° for pressure reading convenience
- Accuracy +/– 2%
- Optional type J or type K thermocouple output

MELT PRESSURE GAUGE RIGID STEM



Thread	d1	d2	a	b	c	d3	d4
½" – 20	ø0.307 (7.8) ø0.303 (7.7)	ø0.413 (10.5) ø0.407 (10.35)	0.217 (5.5) 0.211 (5.35)	0.441 (11.2) 0.233 (11.0)	0.629 (16.0)	ø0.41 (10.5)	ø0.5 (12.7)
M18	ø0.394 (10.0) ø0.386 (9.8)	ø0.610 (15.5) ø0.602 (15.3)	0.236 (6.0) 0.230 (5.85)	0.551 (14.0) 0.543 (13.8)	0.787 (20.0)	ø0.63 (16.0)	ø0.709 (18.0)

Part Number	Description	Pressure Range	Thermocouple
ERTG6-5M	6" Rigid Stem Only	0–5,000 psi	None
ERTG6-5MTCJ	6" Rigid Stem Only	0–5,000 psi	Type J
ERTG6-5MTCK	6" Rigid Stem Only	0–5,000 psi	Type K
ERTG6-10M	6" Rigid Stem Only	0–10,000 psi	None
ERTG6-10MTCJ	6" Rigid Stem Only	0–10,000 psi	Type J
ERTG6-10MTCK	6" Rigid Stem Only	0–10,000 psi	Type K
ERTG12-5M	12" Rigid Stem Only	0–5,000 psi	None
ERTG12-5MTCJ	12" Rigid Stem Only	0–5,000 psi	Type J
ERTG12-5MTCK	12" Rigid Stem Only	0–5,000 psi	Type K
ERTG12-10M	12" Rigid Stem Only	0–10,000 psi	None
ERTG12-10MTCJ	12" Rigid Stem Only	0–10,000 psi	Type J
ERTG12-10MTCK	12" Rigid Stem Only	0–10,000 psi	Type K

MELT PRESSURE GAUGE FLEXIBLE STEM

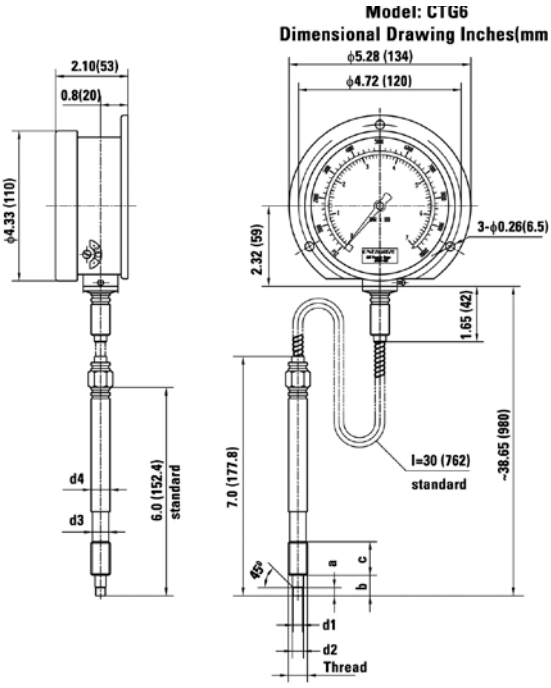
Melt Pressure Gauge - Model ECTG

Melt Pressure Gauge Model ECTG is a totally mechanical device, requiring no power. This rugged, totally
self-contained Melt Pressure Gauge is available in either 0–5,000 psi or 0–10,000 psi ranges. This gauge allows the user to benefit from the improved efficiency and quality that goes along with melt pressure monitoring at an affordable price.

Melt Pressure Gauge Model ECTG comes standard with a 6″ rigid stem and 30″ of flexible capillary, and ½–20 UNF thread.

Features & Benefits

- Requires no electrical power and is totally maintenance fre
- All stainless steel construction
- Large 4″ gauge head with safety glass can be rotated 300° for pressure reading convenience
- Accuracy +/– 2%
- Optional type J or type K thermocouple output



Thread	d1	d2	a	b	c	d3	d4
½″ – 20	ø0.307 (7.8) ø0.303 (7.7)	ø0.413 (10.5) ø0.407 (10.35)	0.217 (5.5) 0.211 (5.35)	0.441 (11.2) 0.233 (11.0)	0.629 (16.0)	ø0.41 (10.5)	ø0.5 (12.7)
M18	ø0.394 (10.0) ø0.386 (9.8)	ø0.610 (15.5) ø0.602 (15.3)	0.236 (6.0) 0.230 (5.85)	0.551 (14.0) 0.543 (13.8)	0.787 (20.0)	ø0.63 (16.0)	ø0.709 (18.0)

Part Number	Description	Pressure Range	Thermocouple
ECTG6-5M	6″ Rigid Stem w/30″ Capillary	0–5,000 psi	None
ECTG6-5MTCJ	6″ Rigid Stem w/30″ Capillary	0–5,000 psi	Type J
ECTG6-5MTCK	6″ Rigid Stem w/30″ Capillary	0–5,000 psi	Type K
ECTG6-10M	6″ Rigid Stem w/30″ Capillary	0–10,000 psi	None
ECTG6-10MTCJ	6″ Rigid Stem w/30″ Capillary	0–10,000 psi	Type J
ECTG6-10MTCK	6″ Rigid Stem w/30″ Capillary	0–10,000 psi	Type K
ECTG12-5M	12″ Rigid Stem w/30″ Capillary	0–5,000 psi	None
ECTG12-5MTCJ	12″ Rigid Stem w/30″ Capillary	0–5,000 psi	Type J
ECTG12-5MTCK	12″ Rigid Stem w/30″ Capillary	0–5,000 psi	Type K
ECTG12-10M	12″ Rigid Stem w/30″ Capillary	0–10,000 psi	None
ECTG12-10M2TCK	12″ Rigid Stem w/30″ Capillary	0–10,000 psi	Type K
ECTG12-10MTCJ	12″ Rigid Stem w/30″ Capillary	0–10,000 psi	Type J

UATC20 Temperature Controllers

The UATC20 Temperature Control Module is a fully microprocessor based unit which has been intelligently designed for Hot Runner Mold Temperature Control Applications where advanced operational and diagnostic features are needed.

The well developed circuitry of the UATC20 produces a module which is simple to operate, rugged and dependable. The advanced diagnostic functions (which are operator programmable to the specific hearing zone) provide a snapshot of the operation of that specific heating zone.

Some of the exceptional Analytical functions found on the UATC20 are:

- A diagnostic snapshot of the heater operating characteristics are revealed when the current sensing feature is employed.
- Detects and alerts to the potential dangerous conditions of current leaking to ground.
- If power to the heater exceeds a selected value, the module will alarm and disable power to the heater preventing damage.
- Advanced circuitry detects, alarms and disables power to the heater in the event the triac fails in a shorted condition.
- Heater diagnostics can be performed by checking the average amperage draw of the heater.
- In the event of a thermocouple, open or shorted condition, the module will automatically go into “APO” (Average Power Output) mode, allowing operations to continue by providing the same average power to the heater as applied prior to the failure.

UATC20

- Real time diagnostics fault detection & error display.
- Audible alarm warns in the case of an error condition.
- A diagnostic snapshot of the heaters operating characteristics are revealed when the current sensing feature is employed.

The UATC20 Temperature Control Module is a fully microprocesser based instrument, which has been intelligently designed for Hot Runner Mold temperature control applications where advanced operational and diagnostic features are needed. The well developed circuitry of UATC20 produces a full featured module which is simple to operate and will stand up to rigors of harsh environments.

An interesting feature of the UATC20 is its capacity to provide a snapshot of operation of the heating zone by displaying amperage draw. The UATC20 also has the ability to adjust maximum amperage draw to a point just above maximum wattage of the heater. When the controller detects a current which is greater than that value, it will sound an alarm so the offending components can be replaced. This improvement allows for greater operating and maintenance efficiency by detecting leakage in mold wires, cables, heaters, etc. at an early stage.

The Circuitry of the UATC20 provides improved protection to the mold in the event that the triac becomes shorted. This circuitry enables the controller to turn off the power to the heater if it detects continued power draw when the temperature is well above the set point.

ITC has addressed one of the most serious and costly problems of Hot Runner Temperature Controllers by incorporating of our Anti-Arching Feature. This enhancement can greatly reduce the probability of damage to either the main frame or module if a module is accidentally changed while the main frame is under power. This feature alone can save molders lot of money for repair or replacement.

FEATURES

- All features and parameters are fully selectable from the menu feature on the keypad.
- Amperage measuring & display.

- APO (average power output) in thermocouple failure condition.
- Automatic test of "LED" segments.
- Operating voltage 240vac, 50/60 Hz, or 120vac
- Cold junction compensation.
- Zero crossing triac.
- This module operates of ITC's 15 amp main frames.
- Ground Fault Detection – detects if there is a short to ground in the heating circuit. This is selectable range.
- High Amperage Alarm – detects if the amperage draw to the heater exceeds a selectable value which can be
- Entered from the menu.
- Thermocouple – Open, Shorted & Reversed. This is indicated by both an error message and audible alarm.
- Triac – Open and Shorted condition. This is indicated by both an error message and audible alarm.
- High & Low Temperature Condition – Activates when the process temperature varies more than 30° F from set point. This is indicated by both an error message and audible alarm.
- Blown Fuse – This is indicated when the blown fuse "LED" comes on

SAFETY FEATURES:

- High Voltage Thermocouple Protection – Fused
- Module High Current Protection – Fused
- Power Disabled to Heater when:
- Traic is Shorted
- Heater is Open
- High Amperage Condition
- Triac is Open
- Over Temperature Condition
- Audible Alarm

Voltage: 208 to 240vac, single phase
Current: 15 amps
Frequency: 50/60 Hz
Wattage: 3600
On/Off Key: Auto Latching (stays on last setting if power is lost)
Physical Configuration: Plugs in for easy interchangeability
Compatibility: Compatible with "G" Series housings
Size: 2" Wide, 7" High, 7-1/2" Deep
Weight: 1-1/2 #
DC Power Supply: Internally generated regulated and compensated
Module Power Usage: Less than 5 watts, excluding load
Set point Range: 0o to 999o F (537o C)
Control Accuracy: +/- 1o F (0.5o C) dependent on total thermal system
Calibration Accuracy: Better than 0.2% of full range
Operating Temperature Range: 32 to 120 degrees F (0 to 48° C)
Thermocouple: Type J, or Type K grounded or ungrounded
External Thermocouple Resistance: High impedance potentiometer input allows long distance T/C wiring
Output Drive: Internal solid state triac, zero crossing AC pulses
Ground Fault Sensitivity: 60 to 180 mA, default 120 mv.
High/Low Temperature Alarm: Factory set @ +/- 30 degrees F (16° C)
Overload Protection: Fuses on both sides of AC line
Transient Protection: dv/dt and transient pulse suppression
Shorted Triac Heater Protection: Highly sensitive, fast acting relays cut power to load

UATC20 Temperature Controllers

Power Line Isolation: Optically and transformer isolated from AC lines. Isolation voltage greater than 2500 volts
Display: Dual LED displays, 3-digit, 7-segment
Manual Mode: Maintains constant output power to within 1% of manual set power. Adjustable from 0 to 100%
Soft Start: Variable stepped voltage, phase fired
Soft Start Duration: 5 Minutes (Adjustable – 0 to 20) up to 212° F (100° C)
Soft Start Override: Temperature 212° F (100° C)

Operational Modes:

– Soft Start precedes Auto Mode
– Thermocouple break overrides Soft Start and Auto Mode
– Reversed or shorted thermocouple overrides Soft Start and Auto Mode
– Manual Mode overrides thermocouple break, reversed, shorted thermocouple and Auto Mode.
– Output is disabled during all fault conditions.

Cold Junction Compensation: Automatic, better than 0.02°F/F° (0.01°C/C)
Open Thermocouple Protection: Automatically disables power to heater or Average Power Output (APO). Selectable
Reversed Thermocouple Protection: Automatically disables power to heater
Shorted Thermocouple Protection: Automatically disables power to heater or Average Power Output (APO). Selectable
Warranty: 2-Years

MFH1

The MFH1 Single Zone Temperature Control System delivers precise temperature control with enhanced diagnostic and control functions. This 10 amp, microprocessor based temperature control system is compact in size, enclosed within a rugged extruded frame and manufactured to standup to the rigors of industrial environments.

Employing the latest in microprocessor technology, the MFH1 offers the user many improved and unique operating features, which provide ease of use, menu selectable flexibility with advanced PID control algorithm for precise control.

Unlike others the MFH1 does not use a wimpy lightweight sheet metal enclosure, but instead the MFH1 uses a robust heavy wall extruded frame which will withstand industrial use.

SUPERIOR FEATURES:

- Compact
- Durable
- Full Featured
- Easy to use
- Enhanced Diagnostic Features

Large, Dual Digital Displays (Temperature, Setpoint, Error Codes)
Audible Alarm
Rear Mounted Fuses
Soft Start "LED" Indicator
Heater Load "LED" Indicator
Bumpless Transfer—APO (average power output)
SELECTABLE FEATURES:
Auto or Manual Operation – LED mode indicator
Type J or K Thermocouple – LED mode indicator
F° or C° Temperature Range – LED mode indicator
Amperage Monitoring & Display – LED indicates AMP mode

- Audible Alarm – Selectable on /off
- Front Panel Lockout – Selectable on/off

MFH1

MFH1 Temperature Controllers

ENHANCED DIAGNOSTICS:

- High/Low Temperature LED – Selectable Range
- tCr Error Display – Thermocouple Reverse
- tCO Error Display – Thermocouple Open
- tCS Error Display – Thermocouple Shorted
- tOh Error Display – Triac/Heater Open
- tSh Error Display – Triac Shorted
- HiC Error Display – High Amperage Alarm – Selectable Range

SAFETY FEATURES:

- High Voltage Thermocouple Protection (fused)
- Module High Current Protection (fused)
- Electrically Isolated Front Panel
- Power Disabled to Heater:
- Triac Shorted
- Triac Open
- Heater Open
- Over Temperature
- High Amperage

Product Specifications – * Specifications may change without notice

- 208 to 240VAC, single phase
- 50/60 Hz
- 10 Amp Capable
- 2400 Watts
- Size: 6 1/2" Wide, 2" High, 10" Deep
- Control System Power Usage, Less than 5 watts
- Set Point Range – 0° to 999° F
- Control Accuracy – +/- 1° F (0.5° C)
- Calibration Accuracy – Better than 0.2% full range
- Cold Junction Compensation
- Operating Temperature Range -32° to 120° F
- Output Drive – Internal solid state triac, zero crossing AC pulse

OPTIONS:

MPTC10 OR MPTC20 - Single Zone Mold Power / Thermocouple Cable

CKPTM1 - Single Zone Cable End Kit—For Frame End:

NOTE: CKPTM1& MFH1-IPP are provided.

SPECIFICATIONS:

Maximum Amperage: 10 Amps 2400 Watts

Input Power: 240 VAC, Single Phase, 3 wire (2 AC & 1 Ground), 50/60 Hz.

Power to Heater: 240 VAC Single Phase, 50/60 Hz. 10 Amps Max.

Thermocouple: Type "J" or "K"

Mold Interface: Accomplished with an optional combination power and thermocouple cable with ground, Five (5) wire.
(Part No. MPTC10 OR MPTC20).

Dimensions & Weight:2" (H) x 7" (W) x 11.5" (D) Approx. 7 lbs. (without cables & connectors)

Construction: Totally self contained system with heavy duty extruded aluminum frame: Combination Power & Thermocouple connector (CKPTOC1), 5 pin, female is mounted on rear of cabinet. Input Power Plug (MFH1-IPP) is mounted on rear of cabinet. (Combination Power/Thermocouple connector & Input Power Plug are supplied standard with this system)

MFH1 Temperature Controllers

Accessories – Supplied: CKPTM1 -Cable End Connector (Combination Power/Thermocouple) which plugs into cabinet. MFH1-IPP -Cord End Connector for Input Power Cord (Must use SJO 143 Style & Type of power cord).

- Accessories – Not Supplied: Main Frame Connector (CKPTOC1) Mold Connector (CKPTIC1) Combination Power/Thermocouple Cable (MPTC10 OR MPTC20) Input Power Cord (MFH1-IPC).
- Input Power Cord: CAUTION -If customer is going to make their own input power cord, Use only SJO 14-3 type and style of power cord. Only this type and style of cord will fit the supplied connector.
- Power Usage: Less than 5 watts
- Setpoint Range: 0° to 999° F
- Control Accuracy: +/- 1° F (0.5° C)
- Calibration Accuracy: Better than 0.2% full range
- Operating Temperature Range: -32° F to 120° F
- Output Drive: Internal Solid State Triac, zero crossing, AC pulse
- Transient Protection: dv/dt and transient pulse suppression
- Shorted Triac Heater Protection: Highly sensitive, fast acting relays cut power to load
- Power Line Isolation: Optically and transformer isolated from AC lines. Isolation voltage greater than 2500 volts
- Display: Dual LED displays, 3-digit, 7-segment
- Manual Mode: Maintains constant output power to within 1% of manual set power. Adjustable from 0 to 100%
- Soft Start: Variable stepped voltage, phase fired
- Soft Start Duration: 5 Minutes (Adjustable – 0 to 20) up to 212° F (100° C)
- Soft Start Override: Temperature 212° F (100° C)
- Operational Modes:
  - Soft Start precedes Auto Mode
  - Thermocouple break overrides Soft Start and Auto Mode
  - Reversed or shorted thermocouple overrides Soft Start and Auto Mode
  - Manual Mode overrides thermocouple break, reversed, shorted thermocouple and Auto Mode.
  - Output is disabled during all fault conditions.
- Cold Junction Compensation: Automatic, better than 0.02°F/F° (0.01°C/C)
- Open Thermocouple Protection: Automatically disables power to heater or Average Power Output (APO). Selectable
- Reversed Thermocouple Protection: Automatically disables power to heater
- Shorted Thermocouple Protection: Automatically disables power to heater or Average Power Output (APO). Selectable
- Warranty: 2-Years

NOTE: ITC brand mainframes for USA and Mexico use only. Outside of US please buy the DME standard MFP Main Frame Package.

NOTE: Control cards not included with mainframes.

MF12150

- Input Voltage: 240vac, 3 Phase, 50/60Hz
- Heater Voltage: 240vac, Single Phase
- Max. Amps per Zone: 15 Amps

ACCESSORIES:

- Mold Cable: MPC12C10G, MPC12C20G or MPC12C30G
- Mold TC Cable: TC12C10G, TC12C20G or TC12C30G
- Mold T/C Connector: MTC12G
- Mold Power Connector: PIC12G
- Floor Stand: MFS512G
- Module: UATC20

MF5150

- Input Voltage: 240vac, 3 Phase, 50/60Hz
- Heater Voltage: 240vac, Single Phase
- Max. Amps per Zone: 15 Amps

ACCESSORIES:

- Mold Cable: MPC5C10G, MPC5C20G or MPC5C30G
- Mold TC Cable: TC5C10G, TC5C20G or TC5C30G
- Mold T/C Connector: MTC5G
- Mold Power Connector: PIC5G
- Floor Stand: MFS512G
- Module: UATC20

MF8150

- Input Voltage: 240vac, 3 Phase, 50/60Hz
- Heater Voltage: 240vac, Single Phase
- Max. Amps per Zone: 15 Amps

ACCESSORIES:

- Mold Power Cable: MPC8C10G, MPC8C20G or MPC8C30G
- Mold T/C Cable: TC8C10G, TC8C20G or TC8C30G
- Mold Power Connector: PIC8G
- Mold T/C Connector: MTC8G
- Floor Stand: MFS512G
- Module: UATC20

MF2

- Input Voltage: 240vac, 1 Phase, 50/60Hz
- Heater Voltage: 240vac, Single Phase
- Max. Amps per Zone: 10 Amps
- Total System Watts: 2,400 Watts

ACCESSORIES:

- Mold Cable: MPTC10 or MPTC20 (2 required)
- Mold Connector: CKPTIC1 (2 required)
- Module UATC20

MF1

- Input Voltage: 240vac, 1 Phase, 50/60Hz
- Heater Voltage: 240vac, Single Phase
- Max. Amps per Zone: 10 Amps
- Total System Watts: 2,400 Watts

ACCESSORIES:

- Mold Cable: MPTC10 or MPTC20
- Mold Connector: CKPTIC1
- Module: UATC20

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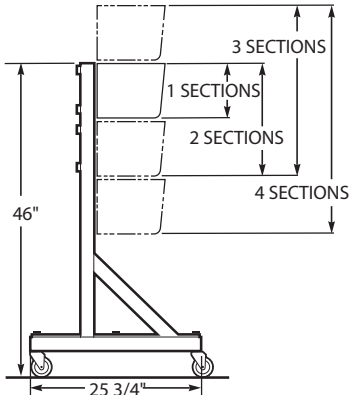


Universal Floor Stand

The Universal Floor Stand will accommodate all 15 or 30 amp
Mainframes from one to four sections high. Stand is made from heavy gauge steel and includes locking casters (400 lb. rating).
All assembly and Mainframe mounting hardware is included.
Heavy duty floor stand available for larger systems (1000 lb. rating).

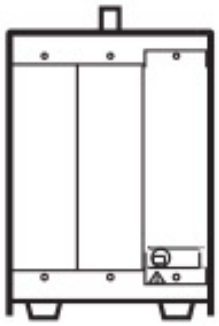
ITEM NUMBER	RATING
MFS512G	400 LBS

Floor stand comes with plates for 5-zone frame mounting on 8-zone "x" pattern

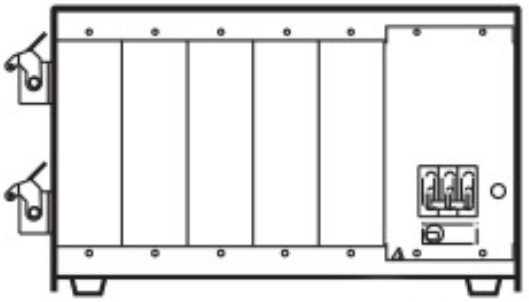
Temperature Controllers

Standard Mainframe Configurations

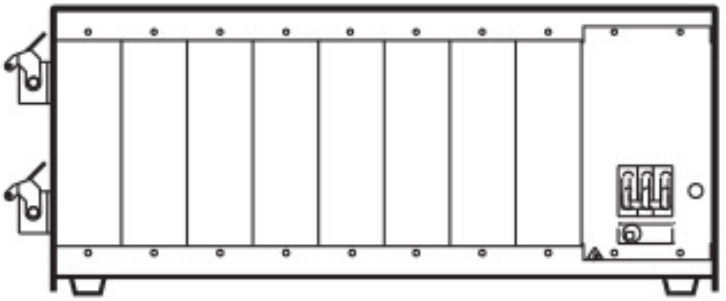
MF1



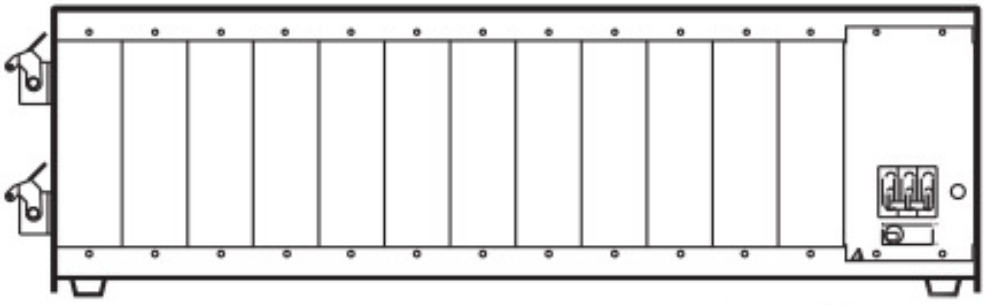
MF2



MF5150 50 AMP



MF8150 50 AMP



MF12150 50 AMP

MAINFRAMES, CABLES & CONNECTORS ALL SOLD SEPERATELY

	PART NUMBER	DESCRIPTION
	UATC20	Module, Single Zone Temperature Controller, Dual Display
1 ZONE	MF1	1-Zone Mainframe; Standard 1-phase 3 Wire, 208-240 VAC, 10 Amps
	MPTC10	1-Zone Mold Power Cable; 10' O.A.L.
	MPTC20	1-Zone Mold Power Cable; 20' O.A.L.
	CKPTIC1	1-Zone Mold Power Input Connector
2 ZONE	MF2	2 -Zone Mainframe; Standard 1-phase 3 Wire, 208-240 VAC, 10 Amps
	MPTC10	1-Zone Mold Power Cable; 10' O.A.L. (2 required)
	MPTC20	1-Zone Mold Power Cable; 20' O.A.L. (2 required)
	CKPTIC1	1-Zone Mold Power Input Connector (2 required)
5 ZONE	MF5150	5-Zone Mainframe; Standard 3-phase 4 Wire, 208-240 VAC, 15 Amps
	MPC5C10G	5-Zone Mold Power Cable; 10' O.A.L.
	MPC5C20G	5-Zone Mold Power Cable; 20' O.A.L.
	MPC5C30G	5-Zone Mold Power Cable; 30' O.A.L.
	TC5C10G	5-Zone Thermocouple Cable; 10' O.A.L
	TC5C20G	5-Zone Thermocouple Cable; 20' O.A.L
	TC5C30G	5-Zone Thermocouple Cable; 30' O.A.L
	PIC5G	5-Zone Mold Power Input Connector
	MTC5G	5-Zone Mold Thermocouple Connector
8 ZONE	MF8150	8-Zone Mainframe; Standard 3-Phase 4 Wire, 208-240 VAC, 15 Amps
	MPC8C10G	8-Zone Mold Power Cable; 10' O.A.L.
	MPC8C20G	8-Zone Mold Power Cable; 20' O.A.L.
	MPC8C30G	8-Zone Mold Power Cable; 30' O.A.L.
	TC8C10G	8-Zone Thermocouple Cable; 10' O.A.L
	TC8C20G	8-Zone Thermocouple Cable; 20' O.A.L
	TC8C30G	8-Zone Thermocouple Cable; 30' O.A.L
	PIC8G	8-Zone Mold Power Input Connector
	MTC8G	8-Zone Mold Thermocouple Connector
12 ZONE	MF12150	12-Zone Mainframe; Standard 3-Phase 4 Wire, 208-240 VAC, 15 Amps
	MPC12C10G	12-Zone Mold Power Cable; 10' O.A.L
	MPC12C20G	12-Zone Mold Power Cable; 20' O.A.L
	MPC12C30G	12-Zone Mold Power Cable; 30' O.A.L
	TC12C10G	12-Zone Thermocouple Cable; 10' O.A.L
	TC12C20G	12-Zone Thermocouple Cable; 20' O.A.L
	TC12C30G	12-Zone Thermocouple Cable; 30' O.A.L
	PIC12G	12-Zone Mold Power Input Connector
	MTC12G	12-Zone Mold Thermocouple Connector

Temperature Controllers

Accessories

Universal Mainframe Floorstand.

Stand accommodates from one to four mainframes. Kit includes the uprights, casters and hardware.
Part# MFS512G & MFS512GHD

Mainframe Blank Panels

Blank panels cover unused mainframe zones to protect operators from dangerous high voltage.
Part# MFBP30G & MFBP10G

FUSES

Module Replacement Fuses		
Part Number	AMPS	Qty.
ABC1	1	5
ABC10	10	5
ABC15	15	5
13X10	10	5
13X15	15	5

Temperature Controllers

Cables

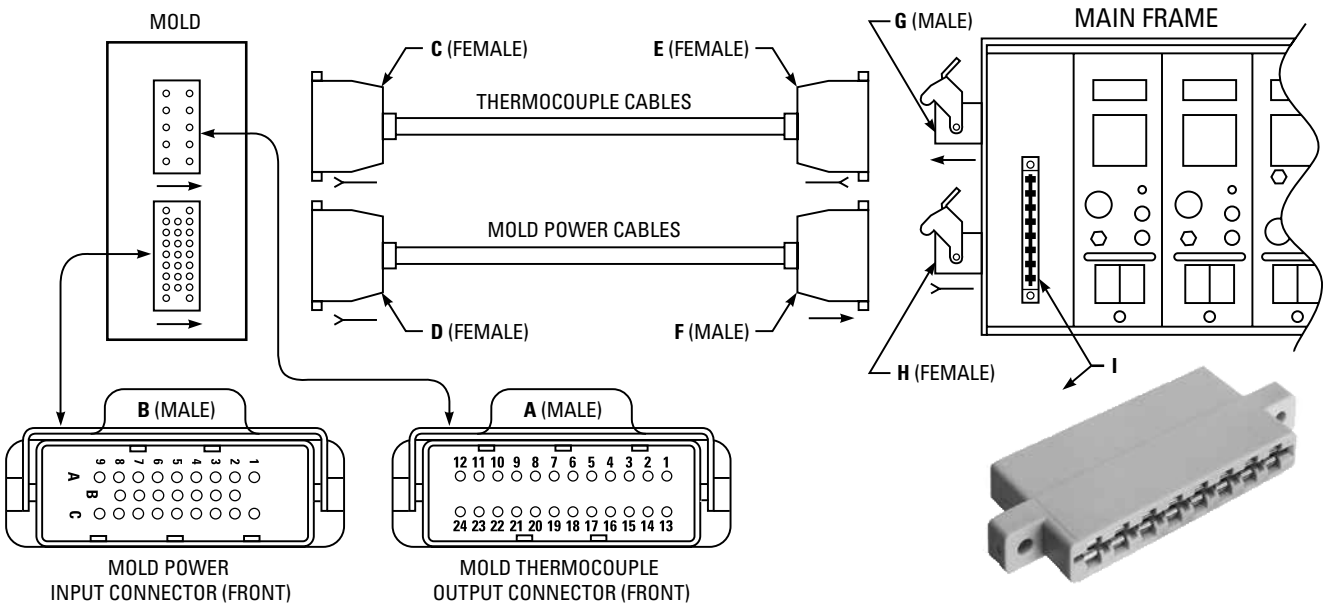
Part Number		Part Number		Part Number	
Zones	(10′ Length)	Zones	(15′ Length)	Zones	(20′ Length)
Mold Power Cable					
5	MPC5C10G	5	GMPC5-15	5	MPC5C20G
8	MPC8C10G	8	GMPC8-15	8	MPC8C20G
12	MPC12C10G	12	GMPC12-15	12	MPC12C20G
Thermocouple Cable					
5	TC5C10G	5	GTC5-15	5	TC5C20G
8	TC8C10G	8	GTC8-15	8	TC8C20G
12	TC12C10G	12	GTC12-15	12	TC12C20G

Temperature Controllers

Connectors

Zones	Part Number
Mold Power Input Connectors	
5	PIC5G
8	PIC8G
12	PIC12G
Mold Thermocouple Connectors	
5	MTC5G
8	MTC8G
12	MTC12G

Mold Connectors, Terminal Boxes and Connector Kits



Connectors/Connector Kits (5 – 48 Zone, 15 AMP; 2 – 5 Zone, 30 AMP)

Reference Letter	Description	Part Number
A	Mold Thermocouple Output Connectors	MTC5G MTC8G MTC12G
B	Mold Power Input Connectors	PIC5G PIC8G PIC12G
C	Mold End Kit for 5-Zone Thermocouple Cable (10, 15 or 30 AMP)	CKTF15G
	Mold End Kit for 8-Zone Thermocouple Cable (10 or 15 AMP)	CKTF18G
	Mold End Kit for 12-Zone Thermocouple Cable (10 or 15 AMP)	CKTF112G
D	Mold End Kit for all 10 or 15 AMP Power Cables	CKPF112BG
	Mold End Kit for 2- or 3-Zone 30 AMP Power Cables	CKPF13CG
	Mold End Kit for 5-Zone 30 AMP Power Cables	CKPF15CG
E	Frame End Kit for all Thermocouple Cables (10, 15 or 30 AMP)	CKTF112AG
F	Frame End Kit for all 10 or 15 AMP Power Cables	CKPM112BG
	Frame End Kit for 2- or 3-Zone, 30 AMP Power Cables	CKPM13CG
	Frame End Kit for 5-Zone, 30 AMP Power Cables	CKPM15CG
G	Thermocouple Input Kit for all Mainframes (10, 15 or 30 AMP)	CKTM212AG
H	Power Output Kit for all 10 or 15 AMP Mainframes	CKPF212BG
	Power Output Kit for 2- or 3-Zone, 30 AMP Mainframes	CKPF23CG
	Power Output Kit for 5-Zone, 30 AMP Mainframes	CKPF25CG
I	Edge Card Connector Kit for all Mainframe PC Boards (10, 15 or 30 AMP)	CKF312G

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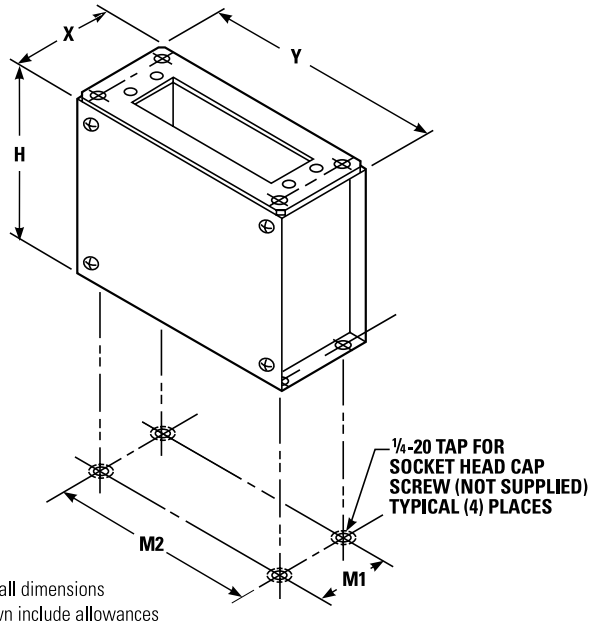
Terminal Mounting Boxes

Terminal Mounting Boxes provide the easiest and most economical method of mounting power and thermocouple connectors on the mold. Constructed of plated, heavy-gauge steel, each box is precut and drilled for quick mounting of the connector to the box, and box to the mold. Connector mounting hardware is supplied. Connectors are ordered separately.



NOTE: Overall dimensions shown include allowances for hardware (assembly screws) but not connectors.

PTC8TBG
(Connectors ordered separately)

PTC5TBG

PTC0012

Terminal Mounting Boxes for Mold Power Input Connectors — TERMINAL

Part Number	X	Y	H	M1	M2	Accepts
PIC512TBG	2.75	4.875	4.25	1.500	4.250	PIC5, 8 or 12G
PICH23TBG	2.75	5.614	4.25	1.500	4.990	PICH23G
PICH5TBG	4.46	6.676	4.25	3.250	6.052	PICH5G

PTC210

Terminal Mounting Boxes for Thermocouple Connectors — TERMINAL

Part Number	X	Y	H	M1	M2	Accepts
MTC5TBG	2.75	4.875	4.25	1.500	4.250	MTC5G
MTC8TBG	2.75	5.614	4.25	1.500	4.990	MTC8G
MTC12TBG	2.75	6.676	4.25	1.500	6.052	MTC12G

PIC512TBG

Combination Terminal Mounting Boxes — COMBINATION

Part Number	X	Y	H	M1	M2	Accepts
PTC210	2.75	4.88	4.25	1.500	4.250	(2) CKPTIC1
PTC5TBG	2.75	8.66	4.25	1.500	8.031	PIC5G, MTC5G
PTC8TBG	2.75	9.47	4.25	1.500	8.843	PIC8G, MTC8G
PTC12TBG	2.75	10.53	4.25	1.500	9.906	PIC12G, MTC12G
PTCH1TBG**	4.46	4.88	4.25	3.250	4.250	AC1240MI, TCS1
PTCH23TBG	2.75	10.53	4.25	1.500	9.906	PICH23G, MTC5G
PTCH5TBG	4.46	11.06	4.25	3.250	10.431	PICH5G, MTC5G
PTC0012	4.46	7.66	4.25	3.250	7.160	TPC0001

* Used with 2-zone, 15 AMP mainframe MFFPR2G ** Used with 1-zone, 30 AMP mainframe MFHP1G

Single and Two-Zone 10 AMP Mainframes

The DME Portable 10 AMP Mainframes are designed for use with 10 or 15 AMP* Smart Series or G-Series Temperature Control Modules. Mainframe is supplied with power input and power-thermocouple output connectors. Circuit breaker provides safety for operation. Control modules and cables are to be ordered separately.

Note: Maximum safe operating amperage is 10 AMPS per zone when using 15 AMP modules. If application will draw more than 10 AMPS per zone, use 15 AMP Mainframe (MFFPR2G).

* User must install ABC10 (10 AMP) fuses in the 15 AMP control modules to protect the mainframe.

Single and Two-Zone 10 AMP Mainframes (50–60 Hz, Single Phase)

Zones	Part Numbers**	Volts	Watts Per Zone	Connectors Supplied
1	MFP1G1	120	1200	(1) AC1512F (Power In) (1) CKPTM1 (Power-TC Out)
1	MFP1G	240	2400	(1) AC2024F (Power In) (1) CKPTM1 (Power-TC Out)
2	MFPR2G	240	2400	(1) AC2024F (Power In) (2) CKPTM1 (Power-TC Out)

** Includes frame and connectors listed. Modules and cables ordered separately.

Note: Replacement power connectors in frame are also available on special order.

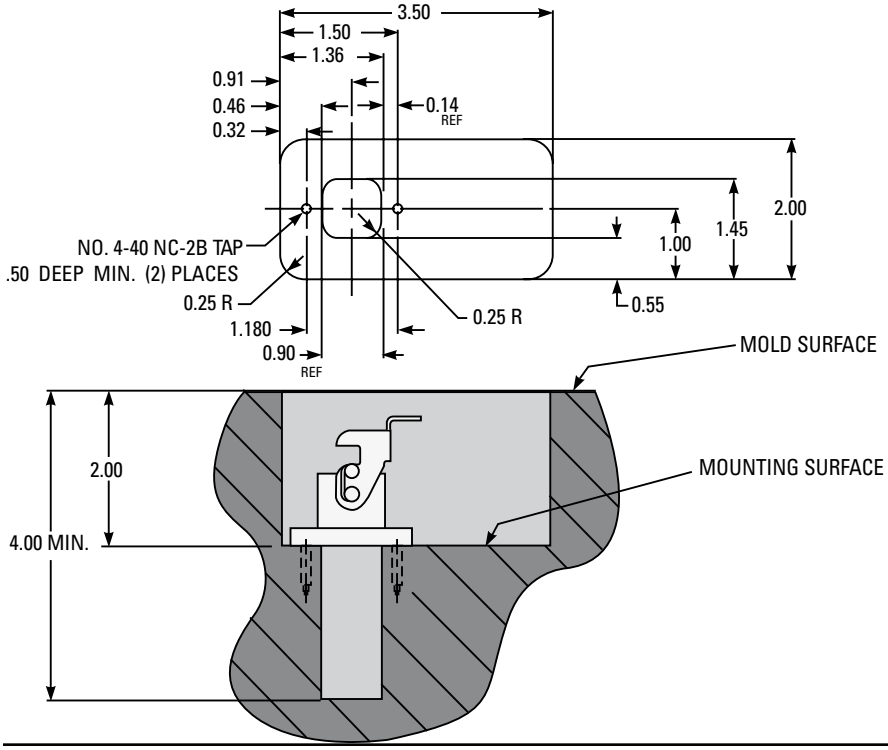
MFP1G
MFP1G1

A: AC2024F (power to mainframe); AC1512F supplied with MFP1G1
B: CKPTM1 (connector to heater)

This single-zone controller is ideal for use with Straight-Shot hot sprue bushings.

Recommended Mold Pocket Layout

(For Mold Power-Thermocouple Input Connector CKPTIC1)



MFPR-2G

A: AC2024F (power to mainframe);
B: CKPTM1 (connector to heater)

Single zone, horizontal 10 AMP controllers (SSH1022/21) also available following page.

Dimensions
Frame 7"W × 9"H × 10"D
(9"H dimension does not include connectors or handle)

F

Temperature Controllers

RoHS/WEEE Compliant Smart Series®
Single Zone Temperature Controller

SSH1022/21 (10 AMP)

- Compact
- Easy-to-use
- Includes new, improved and unique features
- Provides microprocessor-based PID control
- More accurate than analog or variac controllers
- Built-in thermocouple diagnostics
- Ideal for use with a hot sprue bushing or a machine nozzle

Key Features

- Large digital display
  - For easier readability of temperature, % power and faults
- Setpoint pushwheel
  - For setting desired setpoint temperature
  - Allows adjustment of setpoint before turning power on
- AUTO % power display
  - Shows % power output while in AUTO mode
  - Indicates average % power requirement on thermocouple failure
  - A diagnostic tool for solving problems

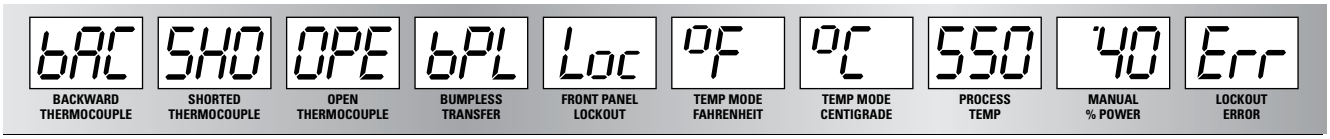
Switchable Options

- Shorted thermocouple sensitivity adjustment
  - Operation can be tailored to fast or slow reaction times
  - Sensitivity can be adjusted with internal switches
  - Very useful for zones with long startup times
- Switchable °C/°F operation
  - Scale indicated at startup
- K type thermocouple support
- Cut feature
  - Gain cut feature for small nozzles and heaters with ungrounded internal thermocouples

Operational Refinements

- Improved SmartStart®
  - A more gradual temperature rise leads to a more effective heater dry out period, thereby extending heater life
  - SmartStart® now available as an option in manual mode
- SelectiveCycle®
  - A very high-speed power output approach
  - Enables accurate temperature control and longer heater life
- Bumpless transfer
  - When a thermocouple failure occurs, operation is automatically continued with a learned % power
  - Unique software accurately assigns percent power setting
- Third fuse
  - Allows for display of low temperature alarm when the load fuses are blown

Front Panel Digital LED Indicators



RoHS/WEEE Compliant Smart Series® Single Zone Temperature Controller

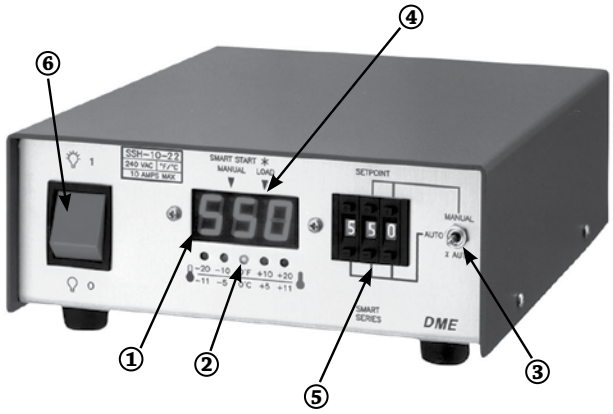
SSH1022/21 (10 AMP)

Controller includes 19-foot power cord, mating mold power and thermocouple connector (CKPTM1) and two spare fuses (ABC10). Additional cables and/or connectors must be ordered separately. See following page for detailed information on cables and connectors. Warranty: Three year (excluding triac and fuses).

Controller Part Number	Volts (VAC)
SSH1022	240
SSH1021	120

Cable* Part Number	Length (Feet)
MPTC10	10
MPTC20	20

CKPTM1
Included



Front Panel Controls and Indicators

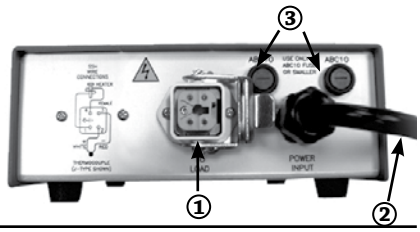
1. Process Temperature Display:
   Shows process temperature, thermocouple faults and other operational modes. Displays % power when switch (3) is pressed down.
2. Temperature Deviation Lights:
   Indicates deviation from setpoint. Outer lights blink at more than ±40˚F (22°C) from setpoint.
3. Auto/Manual/% Auto Power Switch:
   Selects AUTO or MANUAL control mode. Shows % power when pressed into "% AUTO" position.
4. LED Mode Indicators:
   Left LED illuminates during manual mode. Right LED illuminates when power is supplied to heater. Right LED blinks during SmartStart®.
5. Setpoint Pushwheel:
   Three-digit switch programs setpoint in AUTO mode. Right two digits program % power in MANUAL mode.
6. Power On/Off Switch:
   Controls AC power to module.

Rear Panel

1. Mold Power and Thermocouple Output Connector:
   CKPTIC1 connects to the heater and thermocouple. Mating connector CKPTM1 is supplied with controller.
2. Power Input Cord:
   Nineteen-foot cord supplies power to controller. Plug supplied with SSH1021 (120 VAC) units. No plug supplied with SSH1022.
3. Load Fuse Receptacles:
   Provides safe and easy replacement of load fuses.

Mold Power and Thermocouple Connector* Part Number
CKPTIC1

*** Items ordered separately**



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Temperature Controllers

RoHS/WEEE Compliant: Smart Series® Single and 2-Zone Mainframe Accessories (10 AMP)

For Use With MFP1G, MFP1G1, MFPR2G, SSH1022 and SSH1021

Mold Power-Thermocouple Input Connector

A Single-Zone Power-Thermocouple Input Connector is available for mounting in or on the mold to accept the power-thermocouple cable from the mainframe. Water resistant, the connector has an integral retaining latch for a secure cable connection and numbered screw-type terminals for power and thermocouple lead wires.

*Can be mounted on top of mold for use with DME Straight Shot hot sprue bushings.

Part Number
MPTC10
MPTC20

Armored Mold Power-Thermocouple Cables

Single-Zone Mold Power-Thermocouple Cables are constructed of special lead wire for use in high temperature environments, and are available to connect the mainframe to the connector on the mold. Available in lengths of 10 or 20 feet. Integral retaining latches on the mainframe and mold connections provide secure cable connections. Connector configurations ensure proper insertion of cable.

Replacement Connector Kits (for Controller & Cables)

Male Power-TC Connectors

- CKPTM1 is on MPTC10/20 Cables; mates with Frame or CKPTF1L only
- CKPTM1L mates with CKPTF1 only

Female Power-TC Connectors

- CKPTF1 is on MPTC10/20 Cables; mates with Mold or CKPTM1L only
- CKPTF1L mates with CKPTM1 only

AC1512F

CKPTM1

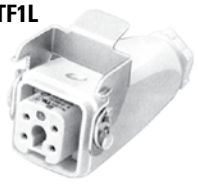
CKPTF1

PTC210

AC2024F

CKPTM1L

CKPTF1L



Power Input Connectors for Mainframe

Part Number	Volts
AC1512F	120
AC2024F	240

Part Number
CKPTM1
CKPTM1L
CKPTM1MH (metal hood)
CKPTM1LMH (metal hood)

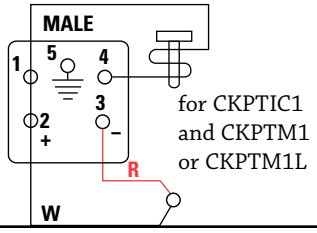
Part Number
CKPTF1
CKPTF1L
CKPTF1MH (metal hood)
CKPTF1LMH (metal hood)

Part Number
PTC210

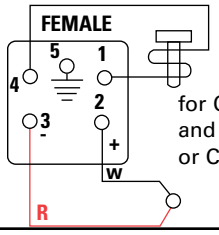
Wiring Diagrams

Part Number
CKPTOC1

Power-Thermocouple Output Connector
(for Mainframe Bulkhead)



for CKPTIC1 and CKPTM1 or CKPTM1L



for CKPTOC1 and CKPTF1 or CKPTF1L

RoHS/WEEE Compliant: Smart Series® Single and 2-Zone Mainframe Accessories (10 AMP)

Two-Zone 15 AMP Mainframes

Provides 15 AMP (3600 watts) per zone. For use with Smart Series or G-Series modules. Supplied with built-in cooling fan, power input, power output and thermocouple input connectors. Control modules and cables are ordered separately.

Two-Zone 15 AMP Mainframe (240 VAC, 50–60 Hz, Single Phase)

Part Number	Watts Per Zone	Connectors Supplied
MFFPR2G	3600	(1) AC1240F (Power In) (2) AC1524M (Power Out) (3) M2MJ (TC In)

Includes frame and connectors listed. Modules and cables ordered separately.

Part Number	Description
AC1240F*	Female 240 VAC twist-lock power input connector (mates with male frame power input)
AC1524M*	Male 240 VAC power output connector (mates with female frame power outputs)
M2MJ*	Thermocouple mini-plug mates with frame as jack strip connector
PTC2TBGTS	2 zone, pre-wired terminal mounting box with terminal strip (mounts to mold; mates with PTC0110 or PTC0120 cables)

* Included with MFFPR2G

Frame Dimensions

7″W × 9″H × 10″D
(9″H dimension does not include connectors or handle)

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Armored Mold Power – Thermocouple Cables (15 AMP)

Single-Zone Mold Power-Thermocouple Cable is constructed of special lead wire for use in high temperature environments. This cable connects the mainframe to the connector on the mold. Available in lengths of 10 or 20 feet. Retaining latches on the mold connector provide secure cable connections.

Part Number
PTC0110
PTC0120

For use with MFFPR2G only

Terminal Mounting Boxes – Prewired (15 AMP)

Terminal Mounting Boxes provide the easiest and most economical method of mounting power and thermocouple connectors on the mold. Constructed of plated, heavy-gauge steel, each box is precut and drilled for quick mounting of the box to the mold (2-zone, prewired terminal mounting box with terminal strip shown with cover plate removed).

Part Number
PTC2TBGTS

For use with MFFPR2G only

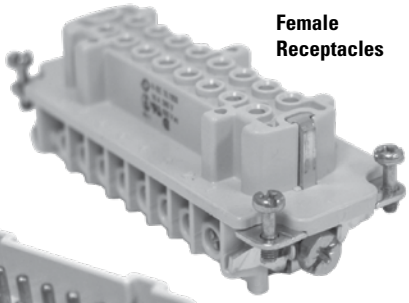
Epic® Connectors

Part	Part Number
6 Contacts, HBE Series	
Male Plug	**10.1900**
Receptacle	**10.1910**
Single Latch	
Panel Base	**RPM0060**
Surface Base	**10.0050**
Top Hood	**RPM0060**
Side Hood	**10.0120**
6 Contacts, H-BS Series	
Male Plug	**10.1700**
Receptacle	**10.1710**
Single Latch	
Panel Base	**RPM0060**
Surface Base	**10.0749**
Top Hood	**RPM0069**
Side Hood	**10.0829**
Double Latch	
Panel Base	**10.0720**
Surface Base	**10.0740**
Top Hood	**10.0800**
Side Hood	**10.0820**
10 Contacts, HBE Series	
Male Plug	**RPM0062**
Receptacle	**RPM0065**
Single Latch	
Panel Base	**RPM0059**
Surface Base	**10.0349**
Top Hood	**RPM0068**
Side Hood	**10.0429**
Double Latch	
Panel Base	**10.0320**
Surface Base	**10.0340**
Top Hood	**10.0400**
Side Hood	**10.0420**
10 Contacts, HA Series	
Male Plug	**10.4400**
Receptacle	**10.4410**
Single Latch	
Panel Base	**10.4420**
Surface Base	**10.4481**
Top Hood	**10.4460**
Side Hood	**10.4450**

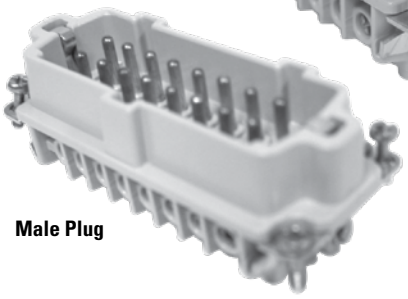
Part	Part Number
12 Contacts, H-BS Series	
Male Plug	**10.1820**
Receptacle	**10.1830**
Double Latch	
Panel Base	**10.1320**
Surface Base	**10.1370**
Top Hood	**10.1330**
Side Hood	**10.1350**
16 Contacts, H-BE Series	
Male Plug	**RPM0063**
Receptacle	**RPM0066**
Single Latch	
Panel Base	**RPM0060**
Surface Base	**10.0749**
Top Hood	**RPM0069**
Side Hood	**10.0829**
Double Latch	
Panel Base	**10.0720**
Surface Base	**10.0740**
Top Hood	**10.0800**
Side Hood	**10.0820**
24 Contacts, H-BE Series	
Male Plug	**RPM0064**
Receptacle	**RPM0067**
Single Latch	
Panel Base	**RPM0061**
Surface Base	**10.1049**
Top Hood	**RPM0070**
Side Hood	**10.1139**
Double Latch	
Panel Base	**10.1020**
Surface Base	**10.1040**
Top Hood	**10.1210**
Side Hood	**10.1130**
25 Contacts, H-D Series	
Male Plug	**RPM0072**
Receptacle	**RPM0073**
Single Latch	
Panel Base	**RPM0074**
Surface Base	**10.5670**
Top Hood	**10.5650**
Side Hood	**10.5640**

Male Plugs and Female Receptacles

- With screw terminals: 3 to 48 captive, backed-off screws for easy and convenient wire termination
- With crimped terminals 7 to 216 contacts
- Contacts are hard, silver-plated copper alloy. (Gold plating available in crimp versions.)
- Ground-safety feature "makes first, breaks last."
- Insulators are interchangeable within either base or hood, and are key-molded to ensure proper assembly
- Terminals are number coded, front and back, for easy installation



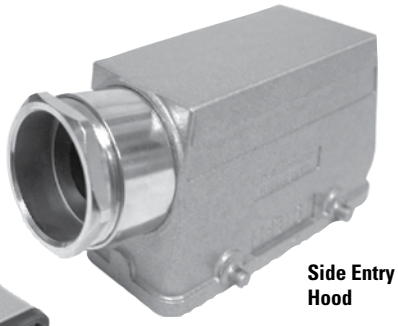
Female Receptacles



Male Plug

Hood

- Built to withstand severe environmental and industrial hazards
- Provides protection against dirt, grease, oil, water, vibration and impact
- Durable, rugged, single-piece aluminum die casting
- Designed for flexible cable; adaptable for seal-tight connections
- Available with front, angled or top entry
- Fully adaptable - a multi-cut Neoprene gasket provides for cables of different sizes



Side Entry Hood

Top Entry Hood

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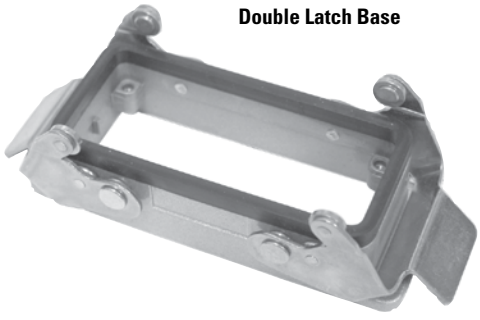
Base

- Positive, spring-loaded locking-latches for quick connect and disconnect
- Designed with a lip-mounted Neoprene gasket for long protection against harsh environments
- Available in panel-mount base and single or double-entry, surface-mount base versions
- Available with spring-loaded or string-attached dust covers

Double Latch Base



Single Latch Base

Digital Pocket Thermometer

Wide Range
40° to 450°F
Updates: At 10 second intervals or instantly when button is pushed
Display: LCD, ¼" high
Stem: Stainless steel
Range: –40° to 450°F
Resolution: 0.1°F
Accuracy: 0.4% of total range between –4° and 77°F; 0.8% maximum over entire range
Maximum Temperature: Intermittent use 400°–450°F
Update Interval: 10 sec (or instant when update button pressed)
Auto-Off: After 50 minutes of non-use
Battery Eveready #392 or equivalent
Minimum Insertion: 1 inch

Part Number D-450

Analog Pocket Thermometer

Part Number	Temp. Range
K795	50 to 550°F

Standard Ranges: Fahrenheit						
Range	0–200°	*0–250°	*50–300°	*50–500°	150–750°	200–1000°
Divisions	2°	2°	2°	5°	10°	10°

*Stock Range

Standard Ranges: Celsius			
Range	0–100°	*0–150°	0–300°
Divisions	1°	1°	2°

Dual Ranges		
Range	50–300°F./ 10–150°C.	50–500°F./ 10–260°C.
Divisions	2°	5°

Model Number	LN250	212	00200
NPT Stem			
⅛" NPT and 2-⅜" Head Dia	LN200		
¼" NPT and 2-⅜" Head Dia	LN250		
½" NPT and 3" Head Dia	GT300		
	Stem Length		
	2-½"	212	
	4"	400	
	6"	600	
	9"	900	
	12"	1200	
	15"	1500	
	18"	1800	
Temperature Range °F			
	0–200		00200
	0–250		00250
	50–300		50300
	50–500		50500
	150–750		150750
	200–1000		2001000

⅛", ¼" or ½" NPT Stem Diameter Industrial Thermometers

- Type 304 stainless steel
- All welded construction
- Easy to read
- Rustproof
- Dustproof
- Leakproof
- Corrosion resistant
- Accuracy to ± 1% of range
- Dampened for minimum vibration
- Perfect for hopper dryers, barrels, fluid heaters, etc.

DIAL THERMOMETERS

F

Non-Contact Thermometers

Wide Range Mini IR Thermometer

Compact Thermometer with Wide Temperature Range

- Measures temperature from –58 to 1000°F with 0.1° resolution up to 199.9°
- Built-in laser pointer identifies target area
- 2000 count backlit display
- Over range indicator
- Automatic data hold when trigger is released
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto power off saves battery life
- Complete with 9V battery

Specifications	
Display Counts	2000 count backlit LCD
Basic Accuracy	±2% of reading
Field of View	8:1
Dimensions	3.2 × 1.6 × 6.3" (82 × 42 × 160 mm)
Weight	6.4 oz (180g)

Part Number 42510

Non-Contact Thermometers

Wide Range IR Thermometer with Type K Input

Measures Both Non-Contact and Contact Temperature Plus Stores 20 Readings

- Wide temperature range IR temperature and type K thermocouple measurements
- Automatic emissivity adjustment (for temperatures 212°F or higher)
- Memory stores up to 20 readings
- Large LCD display with bright backlight for easy-to-read measurements and programming parameters
- Laser pointer provides better aim and accuracy
- Auto-hold activates when the measurement trigger is released
- Adjustable high/low alarm alerts user visually and audibly when temperature exceeds programmed limits
- MAX/MIN/AVG/DIF features display highest, lowest, average, and MAX minus MIN values
- Data hold, auto power off, and low battery indication
- Switches built into handle allow for °C/°F display selection, auto power off defeat, and alarm on/off control
- Complete with 9V battery, type K thermocouple sensor (–4 to 482°F/–20 to 250°C), and carrying case

Specifications	
Display Counts	4000 count backlit LCD
Range	IR: –58 to 1472°F (–50 to 800°C) Type K: –58 to 2498°F (–50 to 1370°C)
Basic Accuracy	IR: (±2% of reading or 4°F/2°C) whichever is greater < 932°F/500°C ± (2.5% rdg +5°) > 932°F/500°C Type K: (±1.5% Reading + 5° For 3°C)
Max Resolution	0.1°F/°C
Emissivity	Adjustable 0.10 to 1.00
Field of View	13:1 distance to target ratio
Dimensions	3.2 × 1.6 × 6.3" (82 × 42 × 160 mm)
Weight	6.4 oz (180g)

Part Number 42515

NOTE: The included type K temperature probe plugs into bottom of handle when in use.

Type K Thermometers with single or dual input direct or differential measurements to 0.1˚

Features

- Rugged design for field use - includes rubber holster
- Dual input model provides differential readings
- Accurate to 0.3%, C°/F° switchable
- Front panel offset adjustment to optimize accuracy
- Displays maximum reading plus data hold on large LCD display
- Includes (6) AAA batteries, holster with stand, and temperature probe

EXTECH INSTRUMENTS

Single Input – Part Number EA11 Dual Input – Part Number EA10

Specifications	Ranges	Accuracy
Temperature	–50 to 1300°C	(0.3% rdg + 1°C); >1000°C (0.5%)
	–58 to 2000°F	(0.3% rdg + 2°F)
Resolution	0.1° or 1°	
Dimensions	5.2 x 2 x 2.8 x 1.2" (135 x 72 x 31mm)/6 x 2.8 x 1.5" (152 x 72 x 37mm)	
Weight	8.3 oz. (235g)	

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Principles of Thermocouples & Thermocouple selection

General Information

Thermocouples are the most widely used devices to measure temperature in the injection molding industry. They consist of a welded (hot) junction, between two lead wires of dissimilar metals (usually iron and constantan, Type J) and a reference junction at the other end of the lead wires. The hot junction creates an electrical current which can be measured at the reference junction. This measurement corresponds to a specific temperature, which provides output reading or control switching. Advantages of using thermocouples include the ability to measure a wide temperature range, durability at high temperature, fast response time, and low cost.

Junctions

Grounded – In grounded thermocouples, the conductors are contained in a stainless steel sheath. The hot junction is welded to the end of the sheath (see diagram 1). This provides high durability and environmental protection without sacrificing response time. The disadvantage of this construction is that there is no electrical protection from voltage surges coming into contact with the sheath. Grounded construction is the most common thermocouple type used in the plastics industry. Most DME thermocouples are grounded. Insulated thermocouples are available on request.

Fig. 1

Grounded
Hot junction welded to sheath tip. Earthed output provides fast response time.

Fig. 2

Insulated
Hot junction insulated from sheath. Insulation resistance over 100 Megohms.

Fig. 3

Exposed
Hot junction extends beyond sheath.

Ungrounded (Insulated): In ungrounded construction the hot junction is insulated from the sheath within mineral insulating compound (see diagram 2). This provides complete isolation from any stray voltage that may be present in the application. The drawback with this construction is increased response time due to increased time for heat to penetrate the insulation and reach the hot junction.

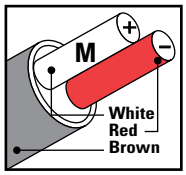
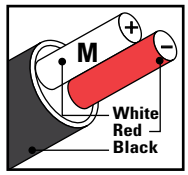
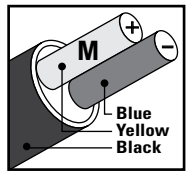
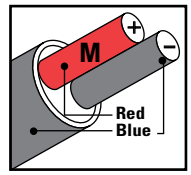
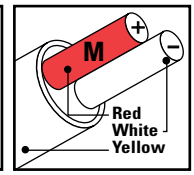
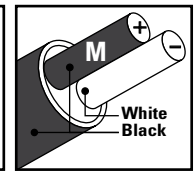
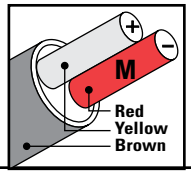
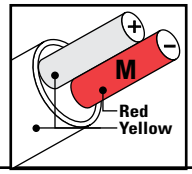
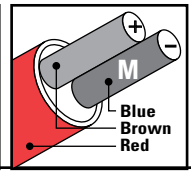
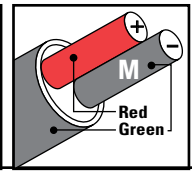
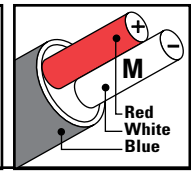
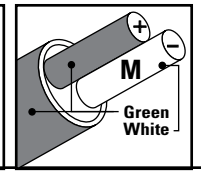
Exposed – The conductors extend beyond the sheath (see diagram 3), providing very rapid response time, but no protection from the environment or stray voltages. Exposed thermocouples are fragile.

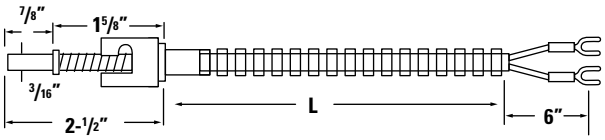
Calibration (Type)

Thermocouples are made of two dissimilar metals with specific electrical characteristics. The specific metals used determine the type of thermocouple. Most thermocouples used in the U.S. plastics industry are Type J (iron/constantan). Less commonly used is Type K (chromel/alumel). Check your machine or temperature control to determine which type you need. If you are unsure, determine the type from the wire color coding in the table

ISA Code	Conductor Characteristics		Temperature Range (°F)	Limits of Error		Application Notes
	Positive	Negative		Standard	Special	
J	Iron (magnetic)	Constantan (non-magnetic)	0 to 530	±4.0°F	±2.0°F	Reducing atmosphere recommended
			530 to 1400	±0.75%	±0.38%	
K	Chromel (non-magnetic)	Alumel (magnetic)	0 to 530	±4.0°F	±2.0°F	Oxidizing atmosphere recommended
			530 to 2300	±0.75%	±0.38%	
T	Copper	Constantan	–75 to 200	±1.8°F	±0.9°F	Can be used in oxidizing or reducing atmosphere; Corrosion resistant
			200 to 700	±0.75%	±0.38%	
E	Chromel	Constantan	0 to 600	±3.0°F	±1.8°F	Oxidizing atmosphere recommended; highest EMF output
			600 to 1600	±0.5%	±0.38%	

Thermocouple and Extension Wire Color Codes

U.S. ANSI/ASTM Code	U.S. ANSI/ASTM TC	U.S. ANSI/ASTM Extension	U.K. BS 1843	Germany DIN 43710	Japan JIS C1610-1981	Europe IEC 584-3
Type J Pos. Magnetic						
Type K Neg. Magnetic						



Straight model TCJ

STANDARD

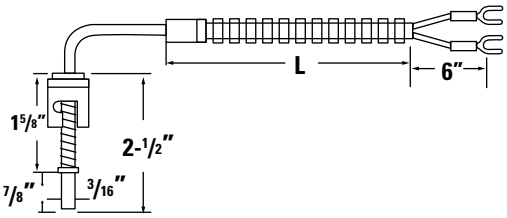
Standard Thermocouples have a variable immersion depth of 1 1/4" to 1¾" with a probe mounting length of 2 1/2". Featuring heavy-duty armor covered leads with standard wire lug lead termination and a 3/16" probe diameter, they will accommodate most requirements in either a straight or 90° bend. Off-the-shelf delivery and a very low price make our standard thermocouples just what you need. Also available in K & RTD types.

Standard Thermocouple

Part Number	Lead Length	End
TCJ1048	48"	Straight
TCJ1060	60"	Straight
TCJ1072	72"	Straight
TCJ1120	120"	Straight

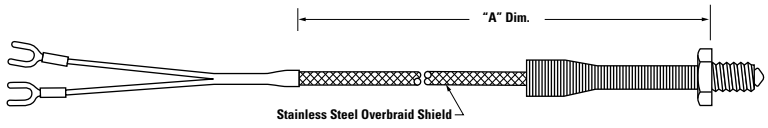
Standard Thermocouple - 90°

Part Number	Lead Length	End
TCJ9-1048	48"	90°
TCJ9-1060	60"	90°
TCJ9-1072	72"	90°
TCJ9-1120	120"	90°



90-degree bend model TCJ9

Shallow Nozzle Thermocouples



Spade Lugs

F

Shallow nozzle thermocouples are available in J or K type and 3 thread sizes. Our 1/2" swivel will seat in shorter holes but also provide accurate readings in deep holes.

SHALLOW NOZZLE

Shallow Nozzle Type Thermocouples

Metrics Fit Nissei, Kawaguchi and Others			
Part Number	TC Type	Thread Size	(A) Lead Length
NTJ-48	J	¼-28 N.F.	48"
NTJ-72	J	¼-28 N.F.	72"
NTJ-48M6	J	M6 x 1 Metric	48"
NTJ-72M6	J	M6 x 1 Metric	72"
NTJ-48M8	J	M8 x 1 Metric	48"
NTJ-72M8	J	M8 x 1 Metric	72"
NTK-48	K	¼-28 N.F.	48"
NTK-72	K	¼-28 N.F.	72"
NTK-48M6	K	M6 x 1 Metric	48"
NTK-72M6	K	M6 x 1 Metric	72"
NTK-48M8	K	M8 x 1 Metric	48"
NTK-72M8	K	M8 x 1 Metric	72"

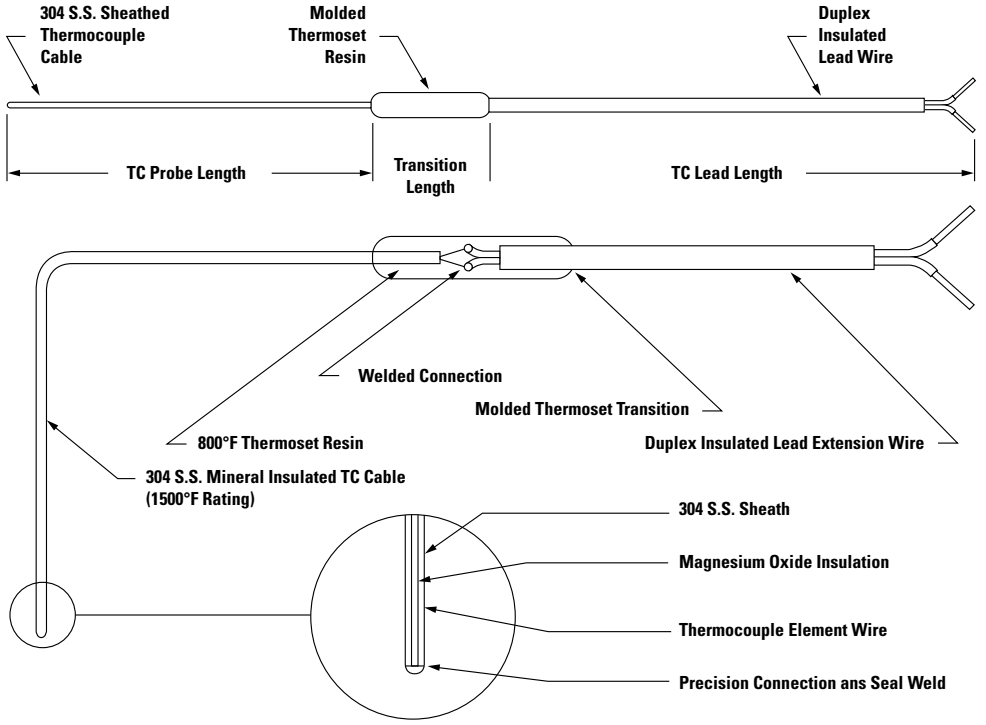
Hi-Temp. Thermocouples

Style “MMT” Miniature Molded Transition

Sensor accuracy and reliability are essential to the precise control of temperatures in multi-component industrial processing systems. Our mineral-insulated style “MMT” thermocouples feature a high-temperature, molded thermoset lead transition. The durable and cost-effective molded transition provides heat and moisture resistance for demanding applications. These high-quality thermocouples are manufactured to stringent specifications and have gained a reputation for unsurpassed performance and reliability. All alloys used in the cable and leads meet or exceed the ANSI specifications for thermocouple grade wire. A full range of lead insulation materials allows selection of leads based on application requirements.

The precision-welded element and lead connections are totally encapsulated in a high-temperature molded thermoset material. If very durable, small diameter thermocouple transitions are required the style "MSMT" thermocouples which are molded into a protective stainless steel cover should be considered. The molded transition provides the highest level of moisture resistance. The standard molded thermoset transition is rated at 800°F. These thermocouples can be readily installed into small diameter thermowells, drilled holes or grooves. When required, tabs, rings and other fastening devices can be induction brazed to the cable to simplify their attachment tool surfaces.

Style “MMT” Miniature Molded Transition Thermocouples

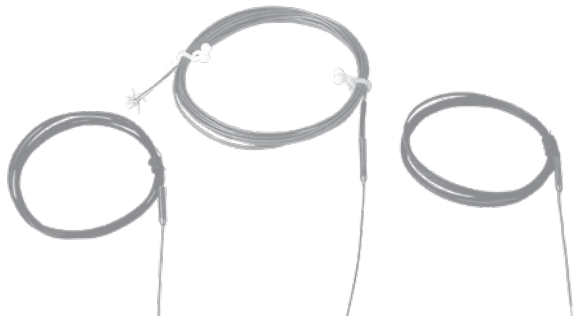


HIGH TEMP THERMOCOUPLES

Part Number	Type	Junction	Probe		Transition		Lead Length	Lead Type
			Dia.	Length	Dia.	Length		
MMT040JG06S48K	J	Grounded	.040″	6″	.188″	.750″	48″	Kapton
MMT040JG14S48K			.040″	14″	.188″	.750″		
MMT063JG06S48K			.063″	6″	.204″	.750″		
MMT063JG14S48K			.063″	14″	.204″	.750″		

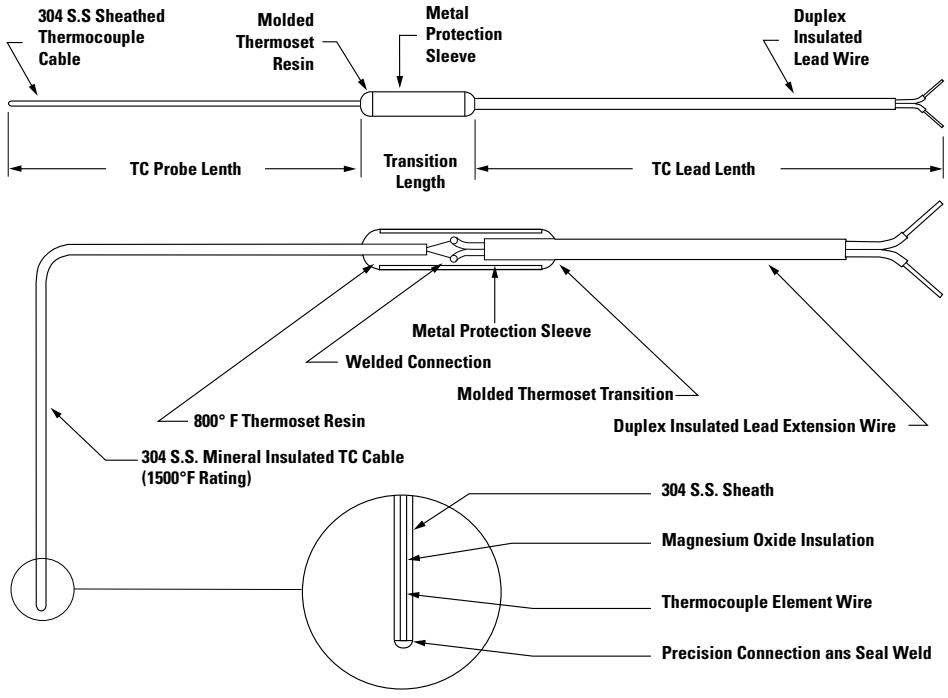
For Hot Runner Molding Applications

- Type "J" calibration (others on request)
- Kapton leads
- Grounded junction
- OEM quality at substantial savings!
- Other probe & lead lengths on request



MINI HI-TEMP THERMOCOUPLES

Probe Dia.	Transition Dia.	Length	Lead Gauge	Probe Length	Lead Length	Part Number
.020″	.135″	.750″	#24	6″	48″	**MHID020JG06S48T**
.020″	.135″	.750″	#24	14″	48″	**MHID020JG14S48T**
.025″	.135″	.750″	#24	6″	48″	**MHID025JG06S48T**
.025″	.135″	.750″	#24	14″	48″	**MHID025JG14S48T**
.031″	.135″	.750″	#24	6″	48″	**MHID031JG06S48T**
.031″	.135″	.750″	#24	14″	48″	**MHID031JG14S48T**
.040″	.165″	.750″	#20	6″	48″	**MHID040JG06S48T**
.040″	.165″	.750″	#20	14″	48″	**MHID040JG14S48T**
.063″	.165″	.750″	#20	6″	48″	**MHID062JG06S48T**
.063″	.165″	.750″	#20	14″	48″	**MHID062JG14S48T**
.093″	.188″	.875″	#20	6″	48″	**MHID093JG06S48T**
.093″	.188″	.875″	#20	14″	48″	**MHID093JG14S48T**
.125″	.250″	.875″	#20	6″	48″	**MHID125JG06S48T**
.125″	.250″	.875″	#20	14″	48″	**MHID125JG14S48T**



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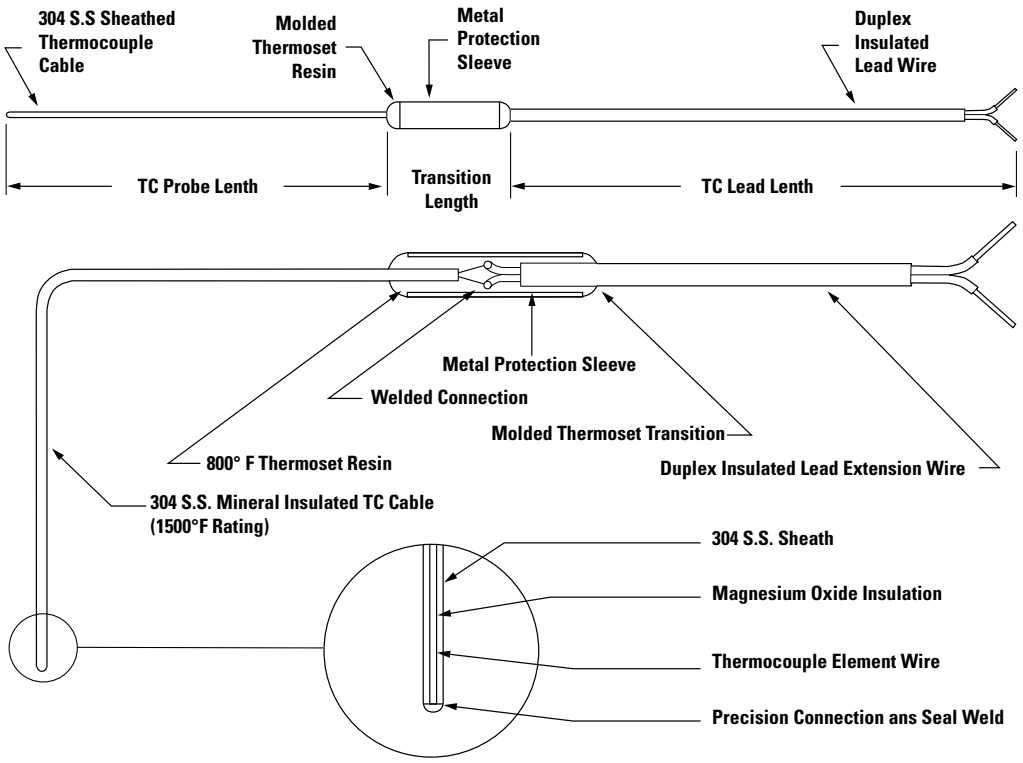
Hi-Temp. Thermocouples

Style "MSMT" Mini SLEEVE Molded Transition

Sensor accuracy and reliability are essential to the precise control of temperatures in multi-component industrial processing systems. Our mineral-insulated style "MSMT" thermocouples feature a metal-sleeved, high-temperature molded thermoset lead transition. The durable and cost-effective molded transition provides maximum strength, heat resistance and moisture resistance for demanding applications. These high-quality thermocouples are manufactured to stringent specifications and have gained a reputation for unsurpassed performance and reliability. All alloys used in the cable and leads meet or exceed the ANSI specifications for thermocouple grade wire. All lead types can be supplied with lead protection for additional abuse resistance. The precision-welded element and lead connections are totally encapsulated in a high-temperature thermoset material molded directly into a protective stainless steel cover.

The metal-sleeved, molded transition provides the highest level of moisture resistance and durability. The standard, metal-sleeved style molded thermoset transition is rated at 800°F. These thermocouples can be readily installed into small diameter thermowells, drilled holes or grooves. Tabs, rings and other fastening devices can be molded in to the transition or attached to the metal sleeve by brazed or welding.

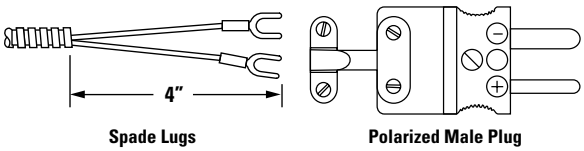
Style "MSMT" Miniature Sleeve Molded Transition Thermocouples



MINI SLEEVE

Part Number	Type	Junction	Probe		Transition		Lead Length	Lead Type
			Dia.	Length	Dia.	Length		
MSMT040JG06S48K	J	Grounded	.040″	6″	.165″	.750″	48″	Kapton
MSMT040JG14S48K			.040″	14″	.165″	.750″		
MSMT063JG06S48K			.063″	6″	.165″	.750″		
MSMT063JG14S48K			.063″	14″	.165″	.750″		

Adjustable Depth



- Stainless steel leads
- Accurate to 1000°F
- Fits all standard adapters
- Fits hole depth from 1/2" to 10"
- Flexible probe bends to any angle
- Best selection, in-stock!

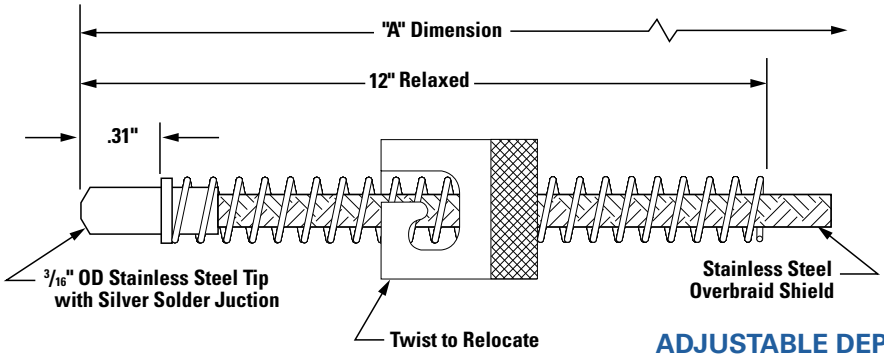
Type J–Stainless Overbraid - Adjustable Depth - Grounded

with Spade Lugs		with Polarized Male Plug	
Part Number	(A) Overall Length	Part Number	(A) Overall Length
ADT1024	24"	ADT1024P	24"
ADT1036	36"	ADT1036P	36"
ADT1048	48"	ADT1048P	48"
ADT1060	60"	ADT1060P	60"
ADT1072	72"	ADT1072P	72"
ADT1096	96"	ADT1096P	96"
ADT1120	120"	ADT1120P	120"
ADT1144	144"	ADT1144P	144"

Type J–Stainless Overbraid - Adjustable Depth - Ungrounded

ADJUSTABLE DEPTH-TYPE J

with Spade Lugs	
Part Number	(A) Overall Length
ADT1030U	30"
ADT1036U	36"
ADT1048U	48"
ADT1072U	72"
ADT1096U	96"
ADT1120U	120"
ADT1144U	144"



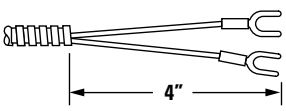
ADJUSTABLE DEPTH-TYPE K

Type K–Stainless Overbraid - Adjustable Depth - Grounded

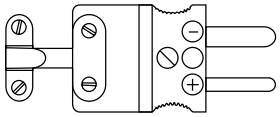
with Spade Lugs		with Polarized Male Plug	
Part Number	(A) Overall Length	Part Number	(A) Overall Length
ADK1024	24"	ADK1024P	24"
ADK1036	36"	ADK1036P	36"
ADK1048	48"	ADK1048P	48"
ADK1072	72"	ADK1072P	72"
ADK1120	120"	ADK1120P	120"
ADK1144	144"	ADK1144P	144"

Thermocouples

Adjustable Depth - Armor Covered



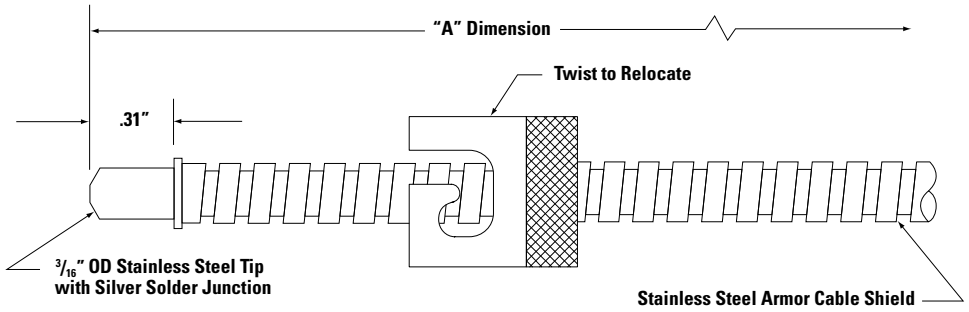
Spade Lugs


Polarized Male Plug

- Stainless steel armor leads
- Accurate to 1000°F
- Fits all standard adapters
- Fits hole depth from 1/2" to 10"
- Flexible probe bends to any angle
- Best selection, in-stock!

ADJUSTABLE DEPTH-TYPE J

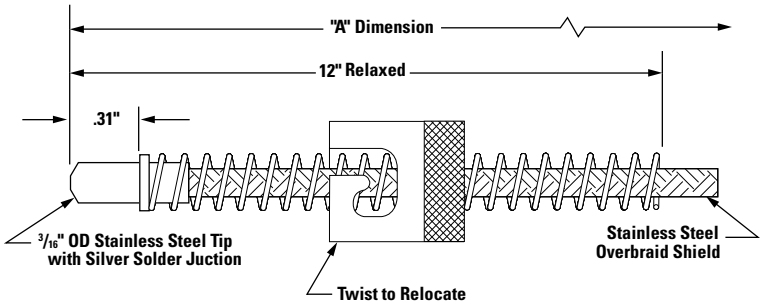
with Spade Lugs		with Polarized Male Plug	
Part Number	**(A) Overall Length**	**Part Number**	**(A) Overall Length**
Type J–Armor Covered - Adjustable Depth - Grounded			
AAT1024	24"	**AAT1024P**	24"
AAT1036	36"	**AAT1036P**	36"
AAT1048	48"	**AAT1048P**	48"
AAT1072	72"	**AAT1072P**	72"
AAT1096	96"	**AAT1096P**	96"
AAT1120	120"	**AAT1120P**	120"
AAT1144	144"	**AAT1144P**	144"
Type K–Armor Covered - Adjustable Depth - Grounded			
AAK1024	24"	**AAK1024P**	24"
AAK1036	36"	**AAK1036P**	36"
AAK1048	48"	**AAK1048P**	48"
AAK1072	72"	**AAK1072P**	72"
AAK1120	120"	**AAK1120P**	120"
AAK1144	144"	**AAK1144P**	144"

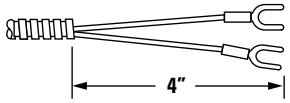


Adjustable Depth - Resistive Temp. Device (RTD)

DME adjustable depth RTDs can be used with thermocouple holes from 1/2" to 10" deep. Standardize on one model RTD for most requirements. Featuring threaded locking cap, which can be rotated or threaded up or down the spring to obtain the desired immersion length.

To install, place probe end in thermocouple hole allowing the tip to rest on the bottom of the hole. Screw bayonet cap down to bayonet adaptor, then back off 2 to 3 turns to provide tension. Push the cap down and twist-lock in place. The spring maintains positive pressure contact between probe tip and thermocouple hole bottom for accurate temperature readings.





Spade Lugs

- 100 ohm platinum sensor
- 3/16" diameter probe
- 2-wire type
- Stainless overbraid
- In stock, low priced!

This is not a Thermocouple

Part Number	(A) Overall Length
RTD1024	24"
RTD1036	36"
RTD1048	48"
RTD1072	72"
RTD1120	120"

ADJUSTABLE DEPTH-RTD

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Thermocouples

Spade Type

Spade thermocouples have the thermocouple sandwiched between two very thin stainless steel shims. They are usually installed between the heater band and the nozzle.

Type J	
Part Number	(A) Lead Length
STC48	48"
STC72	72"
Type K	
STK48	48"
STK72	72"

SPADE TYPE

More Sizes Available! Call for Pricing!

Thermocouples

Lug Mount

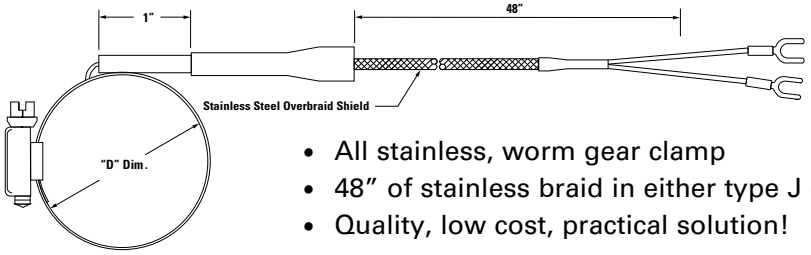
Our washer thermocouples are designed to be used for surface temperature readings of nozzles, barrels, molds, cylinders or die heads. These handy molding accessories can be mounted by a bolt, screw or threaded stud and nut.

LUG MOUNT

Part Number	(A) Lead Length	Washer I.D.	Screw or Bolt Size	Washer O.D.
Type J				
WTC336	36″	3⁄16	#6-8-10 Screw	3⁄8
WTC348	48″	3⁄16	#6-8-10 Screw	3⁄8
WTC360	60″	3⁄16	#6-8-10 Screw	3⁄8
WTC372	72″	3⁄16	#6-8-10 Screw	3⁄8
WTC396	96″	3⁄16	#6-8-10 Screw	3⁄8
WTC3120	120″	3⁄16	#6-8-10 Screw	3⁄8
WTC536	36″	5⁄16	1⁄4″-5⁄16″ Bolt	21⁄32
WTC548	48″	5⁄16	1⁄4″-5⁄16″ Bolt	21⁄32
WTC560	60″	5⁄16	1⁄4″-5⁄16″ Bolt	21⁄32
WTC572	72″	5⁄16	1⁄4″-5⁄16″ Bolt	21⁄32
Type K				
WTK536	36″	5⁄16	1⁄4″-5⁄16″ Bolt	21⁄32
WTK548	48″	5⁄16	1⁄4″-5⁄16″ Bolt	21⁄32
WTK560	60″	5⁄16	1⁄4″-5⁄16″ Bolt	21⁄32
WTK572	72″	5⁄16	1⁄4″-5⁄16″ Bolt	21⁄32

Thermocouples

Pipe Clamp



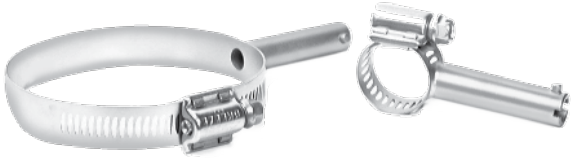
- All stainless, worm gear clamp
- 48″ of stainless braid in either type J or K with spade lug terminations
- Quality, low cost, practical solution!

PIPE CLAMP

Pipe Clamp Thermocouple–Type J			Pipe Clamp Thermocouple–Type K		
T/C Type	Clamping Range Inches	Part Number	TC Type	Clamping Range Inches	Part Number
			K	½ to ⅞	**PCK006**
J	⅞ to 1-½	**PCJ016**	K	⅞ to 1-½	**PCK016**
J	1-5⁄16 to 2-¼	**PCJ032**	K	1-5⁄16 to 2-¼	**PCK032**
J	2-¼ to 3-5⁄16	**PCJ048**	K		
J	3-5⁄16 to 4-¼	**PCJ064**	K		
J	4-¼ to 5-¼	**PCJ096**	K	4-¼ to 5-¼	**PCK096**

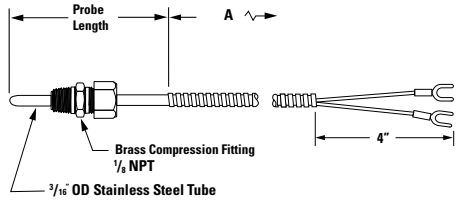
Pipe Clamp Adapters

Clamping Range Inches	Adapter O.A.L.	Part Number
½ to ⅞	1¾″	**PCA100**



Bendable Probe

The Bendable Probe Thermocouple is designed for hard-to-reach places. The probe tube can be bent to any angle. This thermocouple can also be used in a variety of hole depths.



BENDABLE PROBE

Bendable Probe Thermocouples – Includes Compression Fitting

Part Number	(A) Overall Length	Probe Length	Diameter	TC Type
BPJ6048	48″	6″	3⁄16″	J
BPJ6072	72″	6″	3⁄16″	J
BPJ60120	120″	6″	3⁄16″	J
BPJ1248	48″	12″	3⁄16″	J
BPJ1272	72″	12″	3⁄16″	J
BPJ12120	120″	12″	3⁄16″	J
BPK6048	48″	6″	3⁄16″	K
BPK6072	72″	6″	3⁄16″	K
BPK60120	120″	6″	3⁄16″	K
BPK1248	48″	12″	3⁄16″	K
BPK1272	72″	12″	3⁄16″	K
BPK12120	120″	12″	3⁄16″	K

Extra Compression Fittings
-
Part Number
CF68-3-2

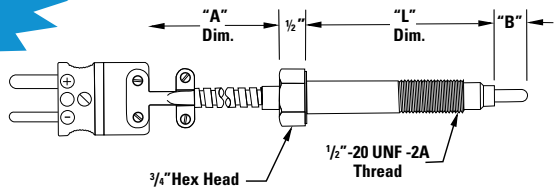
Thermocouples

Melt Bolt

Melt Bolt Thermocouples are used to measure the melt temperature as it moves down the extruder barrel, and is in direct contact with the melting plastic for the most accurate readings.

- 1⁄8″ tip diameter
- 1⁄2 - 20 UNF thread
- 20,000 P.S.I. pressure rating
- 1000°F maximum temperature
- Grounded for faster response
- 304 stainless bolt & extensions

More Sizes Available! Call for Pricing!



MELT BOLT

Flexible Extension - Type J					Flexible Extension - Type K				
TC Type	(L) Bolt Length	Part Number	(B) Tip Length	"A" Length	TC Type	(L) Bolt Length	Part Number	(B) Tip Length	"A" Length
J	3″	**MBJ0-3F**	Flush	4″	K	3″	**MBK0-3F**	Flush	4″
J	3″	**MBJ2-3F**	1⁄8″	4″	K	3″	**MBK2-3F**	1⁄8″	4″
J	3″	**MBJ4-3F**	1⁄4″	4″	K	3″	**MBK4-3F**	1⁄4″	4″
J	6″	**MBJ0-6F**	Flush	4″	K	6″	**MBK0-6F**	1⁄8″	4″
J	6″	**MBJ2-6F**	1⁄8″	4″	K	6″	**MBK2-6F**	1⁄4″	4″
J	6″	**MBJ4-6F**	1⁄4″	4″	K	6″	**MBK4-6F**	Flush	4″

Thermocouples

Newbury (Type J)

Newbury OEM-type thermocouples are held in place by means of a set screw which is tapped into the nozzle hex. The thermocouple junction is side sensing and can be inserted from either side of the nozzle. The probe is 1/8″ diameter by 1″ long with a 90° bend, strain reliever and stainless braid leads.

NEWBURY

Part Number	Overall Length
NNT48	48″
NNT72	72″

Thermocouples

Extensions

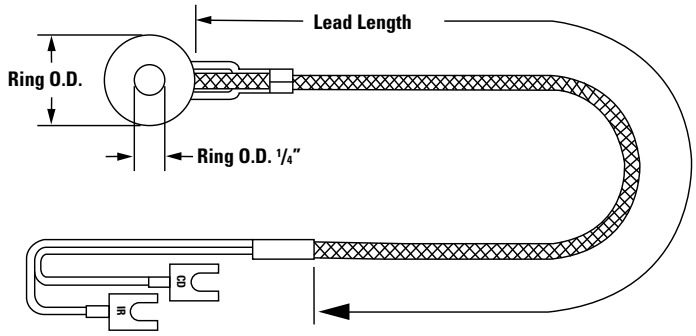
EXTENSIONS

Part Number	Lead Length	
SEM48	48″	Male plug braid SEM part numbers
SEM72	72″	
SEM120	120″	
SEF48	48″	Female plug braid SEF part numbers
SEF72	72″	
SEF120	120″	
AEM48	48″	Male plug armor AEM part numbers
AEM72	72″	
AEM120	120″	
AEF48	48″	Female plug armor AEF part numbers
AEF72	72″	
AEF120	120″	

Thermocouple extensions stock - Type J ; all other types on request.

Ring Mount

Gasket thermocouples can be quickly and firmly secured to any flat surface with an appropriate sized bolt. Gasket thermocouples are often used in parallel with other types of sensors to create an average temperature measurement between surface and internal temperatures.

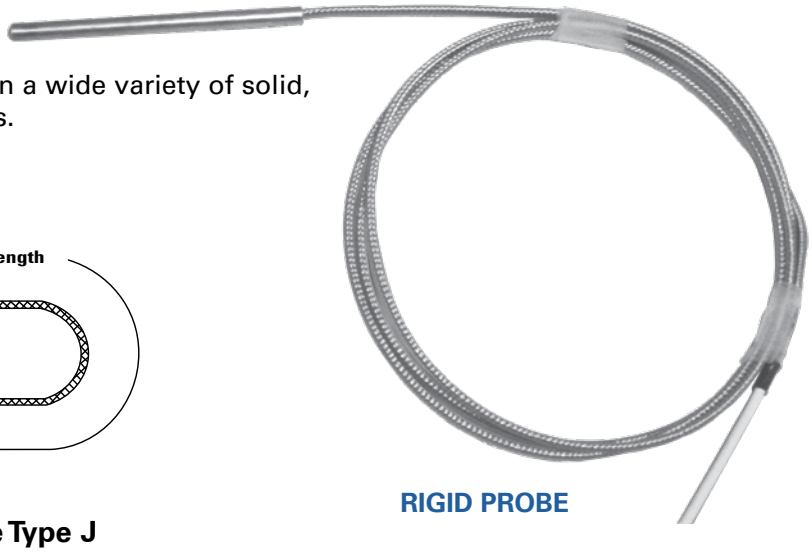


RING MOUNT

Part Number	Desc.
60J723	SS br. 72" str.
60J91201	SS br. 120" 90 deg. plug
60J9723	Kapton 72" 90 deg.
60J91443	Kapton 144" 90 deg.

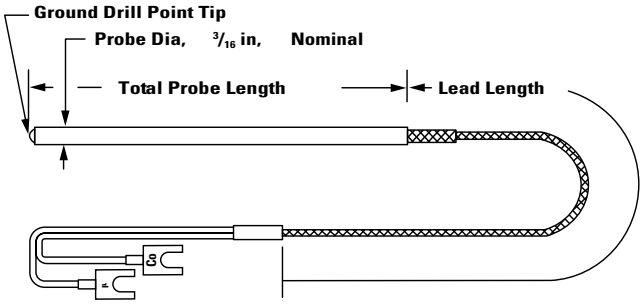
Thermocouples

Rigid Probe Thermocouples



RIGID PROBE

Rigid probe thermocouples are useful in a wide variety of solid, gas and liquid temperature applications.



All Thermocouples Listed Below are Type J

Part Number	Probe	Lead Description
RPTC11	1/8" dia. x 1" long	36" stainless steel braid
RPTC14	1/8" dia. x 2" long	72" stainless steel braid
RPTC01	3/16" dia. x 1/2" long	48" stainless steel braid
RPTC02	3/16" dia. x 3" long	48" stainless steel braid
RPTC03	3/16" dia x 3" long	72" stainless steel braid

Insulated Quick Disconnects

"Quick-Slide" male and female fully Insulated Quick Disconnects give reliable connection, and resist corrosion and arching while improving conductivity. Funnel barrel for easy insertion of wire. Centered male blade allows reversible entry; female connector has corrugated barrel.

- Rated for 300VAC
- 221°F/105°C
- Tab size - .250" × .032"

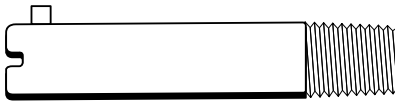
50 Pieces Per Bag	Male/Female Wire Range	Male 22–18	Female 22–18	Male 16–14	Female 16–14
	Part Number	NQM-2216	NQF-2216	NQM-1614	NQF-1614

Non-Insulated Quick Disconnects

50 Pieces Per Bag	Male/Female Wire Range	Male 22–18	Female 22–18	Male 16–14	Female 16–14
	Part Number	QM-2216	QF-2216	QM-1614	QF-1614

Bayonet Adapters

1/8-27 N.P.T.		3/8-24 N.F.
Part Number	Length	Part Number
BA72	7/8"	BA76
BA202	1-1/4"	BA206
BA262	1-3/8"	
BA362	2-1/4"	BA366
BA562	3"	



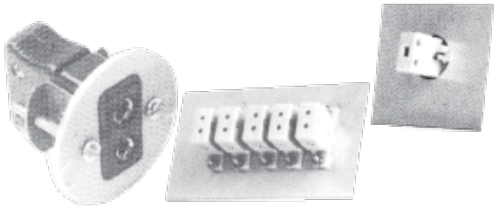
Metric-to-English Adapters

Metric Thread	English Thread	Length	Part Number
10 × 1.5	1/8-27	1"	MBA-10
12 × 1	1/8-27	1"	MBA-12
14 × 1.5	1/8-27	1"	MBA-14

Screw into metric threaded hole and then use standard 1/8-27 NPT Bayonet Adapter

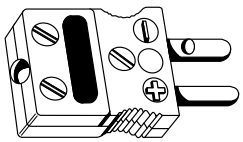
Panel Jacks

Part Number	Size	Descpt.
630RJ	1–1/8" dia.	Round - J
630RK	1–1/8" dia.	Round - K
630RJM	1–1/8" dia.	Mini - J
631J1	2" square	1 Jack
631J5	3–1/4" × 5"	5 Jack
631J5M	2" × 4"	5 - Mini J



STANDARD MALE PLUGS

Part Number
MPJ
MPK

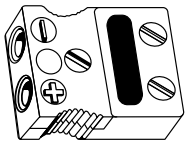


Glass-filled nylon - rated to 400°; type J is black, type K yellow

Standard Female Jacks

Part Number
FJJ
FJK

STANDARD FEMALE JACKS

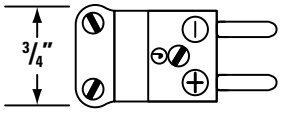


Glass-filled nylon - rated to 400°; type J is black, type K yellow

Miniature Male Plugs

Part Number
MMPJ
MMPK

MINI MALE PLUGS

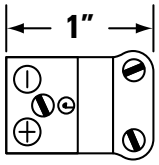


Glass-filled nylon - rated to 400°; type J is black, type K yellow

Miniature Female Jacks

Part Number
MFJJ
MFJK

MINI FEMALE JACKS



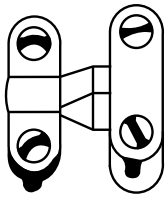
Glass-filled nylon - rated to 400°; type J is black, type K yellow

F

Cable Clamp

Part Number	Size
CC610	Std
CCM610	Mini

CABLE CLAMP

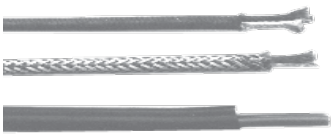


Thermocouple Wire

High Temperature

- High quality
- In stock for immediate shipment

THERMOCOUPLE WIRE



Thermocouple Extension Wire						
Part Number	Wire Size	Wire Type	Rated Description	°F	Wire	Overall
Type J						
TCEW1	20 Ga	Stranded	Fiberglass Jacket Over Insulated Duplex Parallel Conductors	900°	Glass	Glass
TCEW1S	20 Ga	Solid	Fiberglass Jacket Over Insulated Duplex Parallel Conductorts	900°	Glass	Glass
TCEW2	20 Ga	Stranded	Stainless Braid Jacket Over Fiberglass Insulated Duplex Parallel Conductors	900°	Glass	Stainless
TCEW2S	20 Ga	Solid	Stainless Braid Jacket Over Fiberglass Insulated Duplex Parallel Conductors	900°	Glass	Stainless
TCEW3	20 Ga	Stranded	PVC Jacket Over Insulated Duplex Parallel Conductors	220°	PVC	PVC
TCEW3S	20 Ga	Solid	PVC Jacket Over Insulated Duplex Parallel Conductors	220°	PVC	PVC
TCEW6	20 Ga	Stranded	PTFE Jacket Over Insulated Duplex Parallel Conductors	500°	PTFE	PTFE
TCEW6S	20 Ga	Solid	PTFE Jacket Over Insulated Duplex Parallel Conductors	500°	PTFE	PTFE
Type K						
TCEW8	20 Ga	Stranded	Fiberglass Jacket Over Insulated Duplex Parallel Conductors	900°	Glass	Glass
TCEW9	20 Ga	Stranded	Stainless Braid Jacket Over Fiberglass Insulated Duplex Parallel Conductors	900°	Glass	Stainless
TCEW12S	20 Ga	Solid	Parallel Conductors	Red 220°	PVC	PVC

Stainless Steel Armor

STAINLESS STEEL ARMOR

Use for molding machines, granulators, chillers, general wiring, heater extensions, controller wiring and all types of plant applications. Stainless armor will withstand extremes in heat (1700°F) and abrasion without rusting or crushing.

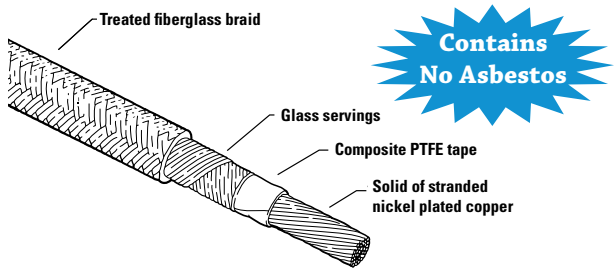
- Use on heater bands, cartridge heaters, thermocouples, etc.
- Solid stainless steel construction
- Crush-resistant shielding, easy to install
- Rust, corrosion, and vibration resistant

Part Number	I.D. Inches	O.D. Inches	Bend Radius
SSA316	3/16 (.187)	9/32	1-7/8"
SSA140	1/4 (.250)	11/32	2"
SSA380	3/8 (.375)	1/2	2-1/4"
SSA120	1/2 (.500)	5/8	2-1/2"

High Temperature - Type TGGT

HEATER WIRE

600 volt/250˚C
Conductor: flexible stranded, 10% nickel-plated copper
Tape Wrap: PTFE tape
Insulation: ceramic tape
Jacket: PTFE-impregnated glass braid
Physical Properties: The ceramic tape insulation combines high dielectric strength with excellent flexibility and ease of stripping to achieve a lead wire of superior resistance to high temperature, abrasion, chemicals and moisture.



Listing: listed by UL (style 5251) and CSA (type C3)
Nominal Thickness: TFE tape - all sizes .015" (.38mm); ceramic tape -24-8 AWG .010" (.25mm) 6-4/0 AWG .015" (.38mm); glass braid - 2408 AWG .005" (.13mm) 6-2 AWG .0075" (.19mm) 1-4/0 AWG .010" (.25mm)

Best utilized: for internal wiring of heating equipment, wiring and extensions for heating equipment used in plastics processing, heating equipment and industrial cooking equipment.

Hi-Temp Heater Extension Wire 482° Rated (750°F. Intermittent)

Part Number	Size AWG	Strand	Nom. O.D. (In./mm)	Bend Rad. (In./cm)	Ampacity*
TGGT18	18	19 × .010	.114/2.90	.66/1.68	23
TGGT16	16	26 × .010	.124/3.15	.72/1.83	40
TGGT14	14	41 × .010	.140/3.56	1.12/2.84	53
TGGT12	12	65 × .010	.162/4.11	1.28/3.25	70
TGGT10	10	105 × .010	.204/5.18	1.48/3.76	93
TGGT8	8	168 × .010	.248/6.30	2.30/5.87	115

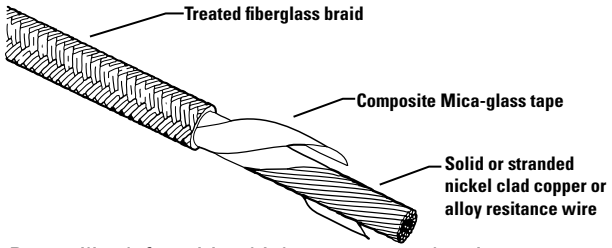
*Ampacity is based on maximum conductor temperature of 250°C in free air at ambient temperature of 30°C

Heater Wire

High Temperature - Type MG

HEATER WIRE

600 volt/450°C
Conductor: flexible, stranded, 27% nickel-clad copper
Insulation: glass reinforced mica tapes
Jacket: glass braid impregnated with high-temperature finisher
Physical Properties: superior resistance to high temperature and the effects of radiation; insulating materials retain their integrity after exposure to 1012



Listing: listed by UL (style 5107) CSA - applied for
Nominal Thickness:

Insulation	Jacket
22-12 AWG .025" (.64mm);	22-12 AWG .007" (.18mm)
10-4 AWG .030" (.76mm);	10-4 AWG .015" (.38mm)
2-4/0 AWG .035" (.89mm)	2-4/0 AWG .020" (.51mm)

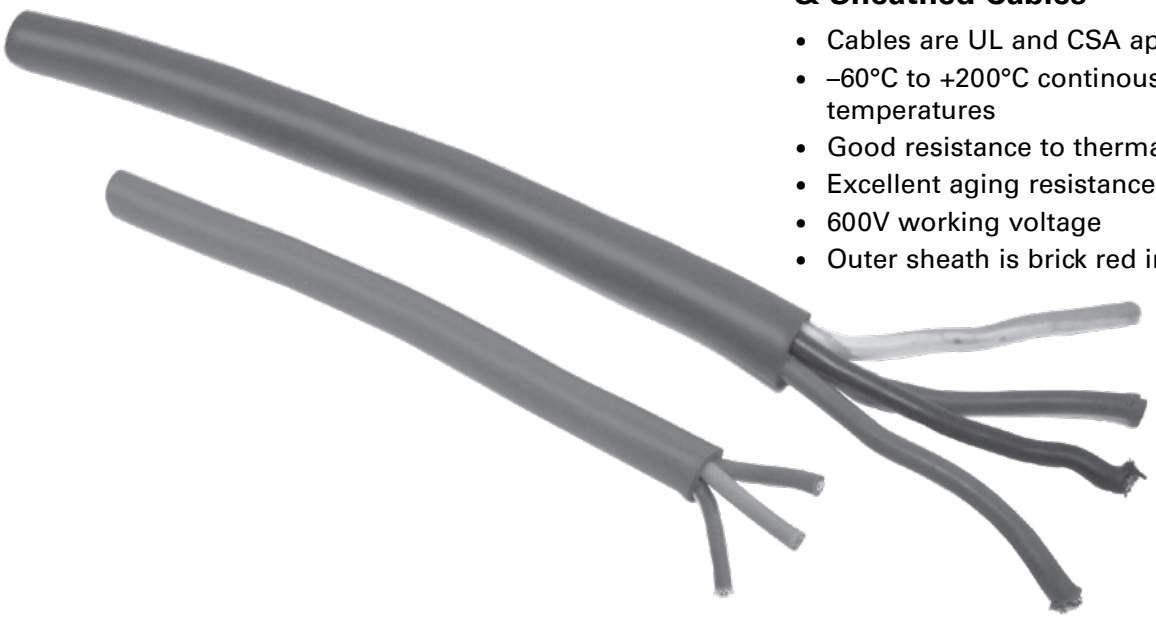
Best utilized: for wiring high temperature heating equipment, wiring and extensions for heating equipment used in plastic processing machinery. Well suited for presses and extruders, hot gates etc.

Extreme Temp Heater Extension Wire 868° Rated (1350°F. Intermittent)

Part Number	Size AWG	Strand	Nom. O.D. (In./mm)	Bend Rad. (In./cm)	Ampacity*
MG20	20	7 × .0126	.110/2.79	.66/1.68	27
MG18	18	19 × .010	.120/3.05	.72/1.83	39
MG16	16	26 × .010	.131/3.33	.78/1.97	51
MG14	14	41 × .010	.142/3.61	1.12/2.84	64
MG12	12	65 × .010	.163/4.14	1.20/3.04	86
MG10	10	105 × .010	.226/5.74	1.76/4.49	115
MG8	8	168 ×.010	.266/6.76	2.60/6.63	120

*Ampacity is based on maximum conductor temperature of 250°C in free air at ambient temperature of 30°C

Sheathed Cables



Multiconductor Silicone-Insulated & Sheathed Cables

- Cables are UL and CSA approved
- –60°C to +200°C continous working temperatures
- Good resistance to thermal shock
- Excellent aging resistance
- 600V working voltage
- Outer sheath is brick red in color

SHEATHED CABLES

Number of Conductors	AWG	Part Number
3 core	16 gauge	**CORE3**
4 core		**CORE4**

Silicone Sleeving

Custom-formulated silicone rubber extruded over electrical grade braided fiberglass

- Flexible
- Grade C
- –70°C to +200°C temperature range

SILICONE SLEEVING

Part Number	I.D.
SS12M	0.133
SS25M	0.263
SS31M	0.313
SS37M	0.375
SS50M	0.5

Spring Return Wire Strippers-KCT600

- Cuts and strips copper or aluminum 10–18 AWG solid and stranded wire
- Holes on the side of the jaws are intended for looping solid wire
- Use pliers to tighten or loosen small nuts
- Precision ground cutting and stripping jaws
- Spring return
-

KCT600

Fiberglass Sleeving

Special high-temperature “E” Type Fiberglass® developed to provide protection in elevated temperatures that are encountered with molding and extruding applications. E-Glass is non-fray sleeving which is heat treated to remove impurities in the yarn and to retard fraying and splaying. Passes VW-1 flammability requirements. Sleeving may be easily distended to cover terminals and solder connections.

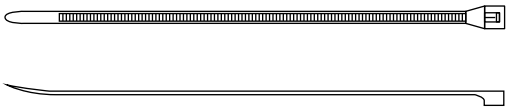
Temperature Ranges:

Continuous service: 500˚F (260˚C)
Sustained service: 800˚F (430˚C)
Intermittent use: 1400˚F (760˚C)

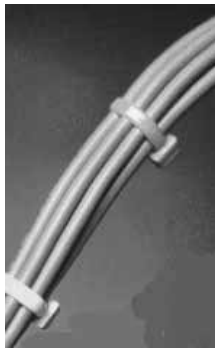
FIBERGLASS SLEEVING

Part Number	Nominal Size	Sleeve I.D.	Fits Wire Sizes
FGS12	12	.091	1 - #12 Wire or Smaller 2 - #18 Wire
FGS7	7	.158	1 - #7 Wire or Smaller 2 - #14 Wires 3 - #16 Wires
FGS2	2	.278	2 - #8 Wires 3 - #12 Wires 6 - #18 Wires 10 - #22 Wires
FGS50	½”	.524	4 - #8 Wires 6 - #12 Wires 8 - #14 Wires 12 - #18 Wires 18 - #22 Wires

- Made in USA
- High quality, low price!
- Use for: wire, cable, hose, ducting, retaining and repair



Ties feature a patented locking system that assures a firm grip. These natural-color cable ties have smooth edges and a taper tip for easy installation. UL approved.



NYLON CABLE TIES

Natural Color (off white) Ties

Part Number	Length O.A.	Max. Dia.	Tensile Looped	Pieces Per Bag
NCT4	4″	13⁄16″	18	100
NCT7	7″	1–3⁄4″	50	100
NCT11	11″	3″	50	100
NCT14	14″	4″	50	100
NCT14HD	14–1⁄2″	4″	175	100
NCT18HD	18–1⁄2″	5–1⁄4″	175	50
NCT24HD	24–1⁄2″	7″	175	50

Black Color Ties

Part Number	Length O.A.	Max. Dia.	Tensile Looped	Pieces Per Bag
NCT4BLK	4″	13⁄16″	18	100
NCT7BLK	7″	1–3⁄4″	50	100
NCT11BLK	11″	3″	50	100
NCT14BLK	14″	4″	50	100
NCT14HDBLK	14–1⁄2″	4″	175	100
NCT18HDBLK	18–1⁄2″	5–1⁄4″	175	50
NCT24HDBLK	24–1⁄2″	7″	175	50

F

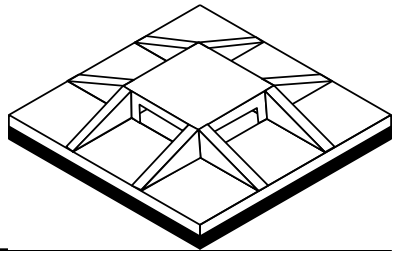
Cable Tie Bases

These Cable Tie Bases make mounting wire and cable a quick, easy and secure process. They are designed so they can be screw-mounted, and they also have an adhesive backing for extra easy application.

Black Nylon Cable Tie Base

Part Number	Description
6295	0.75″ × 0.75″ Base
6297	1″ × 1″ Base

CABLE TIE BASES



Butt Connectors

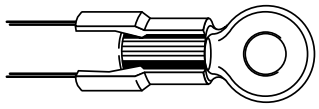
	Part Number	Max. Temp.	Wire Size
Non-Insulated	**BCC18**	600°F	22-18
	BCC14	600°F	16-14
	BCC10	600°F	12-10
	BCS18	900°F	22-18
	BCS14	900°F	16-14
	BCS10	900°F	12-10
Nylon Insulated	**BCC18N**	300°F	22-18
	BCC14N	300°F	16-14
	BCC10N	300°F	12-10

BUTT CONNECTORS

High Temperature Terminal Lugs

Features & Construction

- Wire ranges clearly marked on all terminals
- Load capacity greater than wire itself
- One-piece construction for greater strength & economy
- Full ¼" long shank provides extra length for fast, easy location when crimping, and wide crimping area for permanent vibration-free and moisture-proof connections
- Extra added feature - beveled O.D.



Extreme Temp. Terminal Lugs - 900°F

Part Number	Wire Size	Stud Size
HTTL18	22-18	⅛
HTTL14	16-14	3⁄16
HTTL10	12-10	3⁄16

TERMINAL LUGS

Tan/Red Super Wire Connectors

3M®

Features

- One connector replaces three
- Compact size and red miniskirt
- Quick bite spring design
- Comfortable wing design for a better grip
- UL listed, CSA certified & CE
- Temp rating 221°F/105°C
- 600 volts maximum

TRBOX
100 pieces per box

Tan/Red Super Wire Connectors

Ceramic Wire Connectors

- For very high temperature applications
- Usable up to 1740°F/950°C
- Ribbed design for easy use
- 600 volt max.

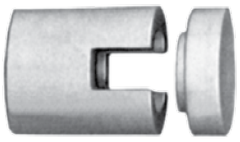
CERAMIC WIRE CONNECTORS

Part Number	Wire Sizes	
	Min.	Max
CWN20	2-#16	2-#16 & 1-#18
CWN16	3-#16	2-#16 & 2-#18
CWN10	2-#14	3-#16 & 1-#18

F

Ceramic Terminal Covers

Part Number	Thd Size
CTC1024	10–24
CTC1032	10–32



CERAMIC TERMINAL COVER

Economy Glass Tape

Economy Glass Cloth Therm-X Electrical Tapes are designed to offer efficiencies in application and versatility in selection.

730 Glass Cloth Electrical Tape

- Operates at 130° (266°F)
- 7 mil. thickness
- Roll length 180′

7300 Glass Cloth Electrical Tape

- Operates at 180° (356°F)
- 7.5 mil. thickness
- Roll length 108′

Part Number	Width	Rated Temp Range	Thickness	Length
730-500	½″	266°F/130°C	7 Mil	180′
730-750	¾″	266°F/130°C	7 Mil	180′
730-1000	1″	266°F/130°C	7 Mil	180′
7300-500	½″	356°F/180°C	7.5 Mil	108′
7300-750	¾″	356°F/180°C	7.5 Mil	108′
7300-1000	1″	356°F/180°C	7.5 Mil	108′

ECONOMY GLASS TAPE

PVC Electrical Tape

PVC Electrical Tape

Part Number ET750

- 7 mil., 3⁄4″ wide, 60′ long
- UL listed
- Individually cello wrapped
- All purpose – all weather
- Service temperature: 176°F/80°C

3M Vinyl Electrical Tape

- 7 mil., 3⁄4″ wide, 66′ long
- UL & SA listed
- Stickier, stretchier and highly conformable
- All purpose – all weather
- Operating range up to 20˚F/105˚C
- Flame-retardant
- Hot and cold weather-resistant
- Use Super 33 + as a primary insulation for wire cable splices up to 600V and for fixture and wire splices up to 1 kV

Meets requirements of ASTM d-3005 Type 1, UL 510, HHI-595C and CSA C22.2

PN # SUPER 33

3M Colored Electrical Tape

Product on this page is no longer available

Features

- 7 mil, ¾" wide, 66' long
- 9 colors
- UL listed & CSA certified
- All purpose - all weather
- Color coding, phase identification, marking, wire harnessing
- Temp rating 220°F/105°C

35**
1 roll (¾" × 66')

** To complete part number, add the color of the tape desired from the list to the right (e.g. Red tape would make the part number 35RED)

Colors Available

- RED
- WHITE
- BLUE
- GREEN
- YELLOW
- ORANGE
- BROWN
- GRAY
- VIOLET

3M Electrical Tape Multi-Pack

Features

- 5 colors in one pack: blue, green, red, white & yellow
- Color coding, phase identification, marking, wire harnessing
- 7 mil - ½" wide × 20' long
- UL listed & CSA certified
- All purpose - all weather
- Temp rating 220°F/105°C

PN: 35 Multipack
5 rolls (½" × 20')

3M Hi-Heat Electrical Tapes

3M Hi-Heat Electrical Tapes are ideal for use on heater bands and thermocouple lead extensions as well as all high-heat applications. We offer two temperature ratings and mill thicknesses. Both are thermosetting and pressure sensitive for a long service life.

Part Number	Width	Rated Temp Range	Thickness
27-500	½"	266°F/130°C	7 Mil
27-750	¾"	266°F/130°C	7 Mil
69-500	½"	356°F/180°C	7.5 Mil
69-750	¾"	356°F/180°C	7.5 Mil

27 Glass Cloth Electrical Tape

- Operates at 130°C (266°F)
- 7 mil thickness
- UL recognized component listing for 150°C (guide OANZ2, file E17385). CSA accepted component 130°C file LR93411. Meets MIL-I-15126F type GFT

69 Glass Cloth Electrical Tape

- Operates at 180°C (356°F)
- 7.5 mil thickness
- Meets requirements of MIL-I-19166C and has UL recognized component listing for 200°C (guide OANZ2, file E17385). CSA accepted component 180°C file LR93411

All Tapes 66' Long!

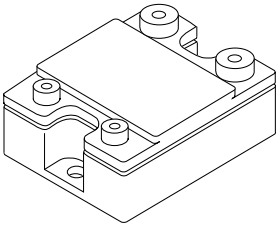
GPMS Solid State Relays

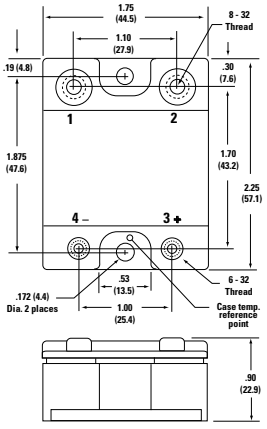
Applications for Solid State Relays are typically used to operate devices such as motors, heaters and lights from low-power signals such as those generated by computers, microprocessors and other logic systems. Here are some examples: heating controls, P.C. drilling machines, industrial process controls, electrostatic precipitators, electromagnets, assembly equipment, plastics thermoforming, welding controls, artificial vision systems, fire and alarm systems, production equipment, lubrication systems, industrial fans and blowers, utility control systems.

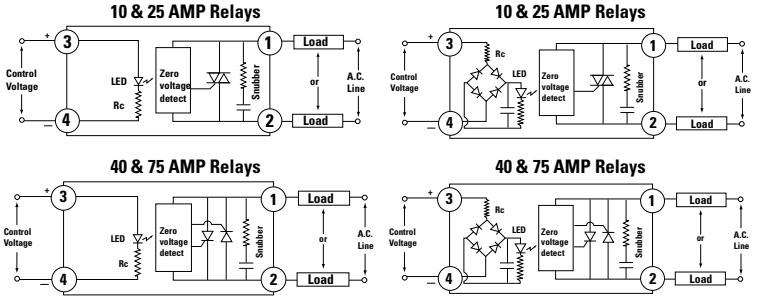
Long life reliability when properly used, the Solid State Relay (SSR) provides a high degree of reliability, long life and reduced Electro-Magnetic Interference(EMI), together with fast response and high vibration resistance. No moving parts; the absence of moving parts means that there is nothing to "wear out." Fast switching Solid State Relays can switch up to 80 times per second, much faster than any electro-mechanical relays low input power required SSR's allows the switching of high loads via ultra-sensitive input power. A low level logic signal (TTL) can activate a switch for as much as 100 AMPS. Resistant to shock and vibration, our solid state relays are filled with an epoxy compound. When cured, the epoxy hardens so that the finished relay is a solid block. This prevents damage to the unit by the shock or vibration present in many industrial usages. Quiet operation, completely quiet switching. Beneficial in many areas where quiet operations are desirable.

- Optically isolated
- Built-in snubber
- 4000 volt isolation
- Zero voltage turn-on
- Direct copper bonded SCR's
- High surge capability
- 100% tested at rated current
- UL recognized
- CSA certified
- CE compliance
- 600 volt peak blocking voltage (1200 volt peak blocking voltage)*
- LED status indicator*
- Clear safety cover included*

* Features available on the 660 volt AC output models only







DC Control Models

Part Number	Maximum Current	Line Voltage	Min. Control Voltage	Max.Control Voltage
610DC	10A	24-330 VAC	3 VDC	32 VDC
625DC	25A	24-330 VAC	3 VDC	32 VDC
640DC	40A	24-330 VAC	4 VDC	28 VDC
675DC	75A	24-330 VAC	4 VDC	28 VDC
500DC	50A	48-660 VAC	4 VDC	28 VDC
750DC	75A	48-660 VAC	4 VDC	28 VDC
AC Control Models				
610AC	10A	24-330 VAC	100 VAC	280 VAC
625AC	25A	24-330 VAC	100 VAC	280 VAC
640AC	40A	24-330 VAC	100 VAC	280 VAC
675AC	75A	24-330 VAC	100 VAC	280 VAC
500AC	50A	48-660 VAC	100 VAC	280 VDC
750AC	75A	48-660 VAC	100 VAC	280 VDC

OBSOLETE

- Totally encapsulated
- Moisture resistant
- Stainless steel tube
- High speed
- Hermetically sealed
- Long lasting
- Cool and quiet
- High reliability
- 3 styles available:
  - Single pole
  - Double pole
  - Triple pole
- UL, CSA & CE Listed

Specifications

Life: Five million operations minimum for resistive loads
Dielectric withstand: min. 2500VRMS
Temperature range: –35°C to 85°C
Coil terminals: #6 binding head screws
Load terminals: Pressure connectors, AWG #6–14 for 35A
AWG #2–12 for 60A
Operate time: .05 second
Release time: .08 second
Contact resistance:
35 AMP: .003 Ohms
60 AMP: .002 Ohms
Pull-In Voltage: 65% of normal

MERCURY CONTACTORS

1 Pole–Normally Open

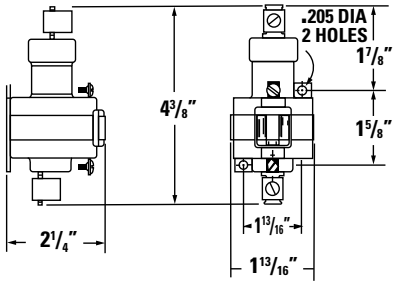
Part Number	Contact Rating at 480VAC	Coil Information		
		Voltage	Watts	Volt AMP
MC35-1201	35 A.	120	3.5	6.4
MC35-2401	35 A.	208/240	3.2/4.0	5.4/7.0
MC60-1201	60 A.	120	2.9	5.8
MC60-2401	60 A.	208/240	3.0/4.0	5.2/7.0
MC100-1201	100 A.	120	7.1	16.4
MC100-2401	100 A.	208/240	7.5	16.1

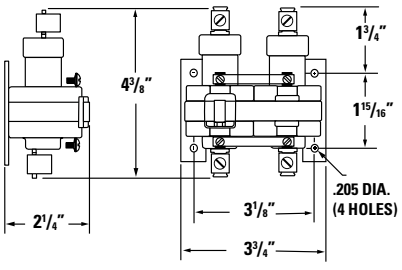
2 Pole–Normally Open

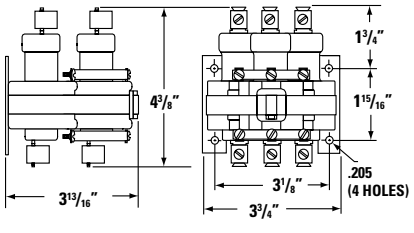
Part Number	Contact Rating at 480VAC	Coil Information		
		Voltage	Watts	Volt AMP
MC35-1202	35 A.	120	7	12.8
MC35-2402	35 A.	208/240	6.4/8.0	10.8/14.0
MC60-1202	60 A.	120	5.8	11.6
MC60-2402	60 A.	208/240	6.0/8.0	10.4/14.0
MC100-1202	100 A.	120	14.2	32.8
MC100-2402	100 A.	208/240	15	32.2

3 Pole–Normally Open

Part Number	Contact Rating at 480VAC	Coil Information		
		Voltage	Watts	Volt AMP
MC35-1203	35 A.	120	10.5	19.2
MC35-2403	35 A.	208/240	9.6/8.0	16.2/21.0
MC60-1203	60 A.	120	8.7	17.4
MC60-2403	60 A.	208/240	9.0/12.0	15.6/21.0
MC100-1203	100 A.	120	21.3	49.2
MC100-2403	100 A.	208/240	22.5	48.3







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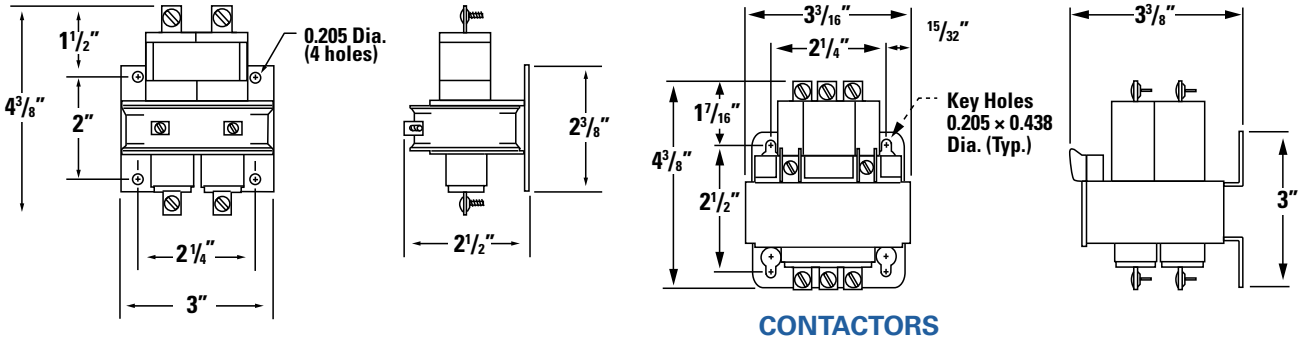
30 AMP Contactors

Quantum IM Mounts



Double Pole

Part Number	Voltage	Wattage	Volt AMPS
CMC30-24DC2	24 VDC	6.3	6.3
CMC30-24AC2	24V-50/60Hz	4.9	13.9
CMC30-1202	120V-50/60Hz	4.9	13.8
CMC30-2402	220V-50/60Hz	4.4	11.7

Triple Pole

Part Number	Voltage	Wattage	Volt AMPS
CMC30-24DC3	24 VDC	5.2	5.2
CMC30-24AC3	24V-50/60Hz	5.0	19.6
CMC30-1203	120V-50/60Hz	4.2	16.8
CMC30-2403	220V-50/60Hz	3.9	14.5

CONTACTORS

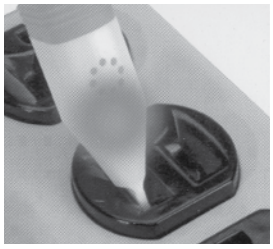
- Contact resistance
- Dielectric withstand 2,500 VAC RMS min
- Operation time: 50 mille second
- Release time: 70 mille second
- 30 AMP @ 600 RES rating per pole
- PTFE plunger guides
- UL listing CSA certified
- Coil terminals - #6 screw
- Load terminals - #8 screw

Voltage Sensor

With Both Visual and Audible Alarm!

Made in the USA!

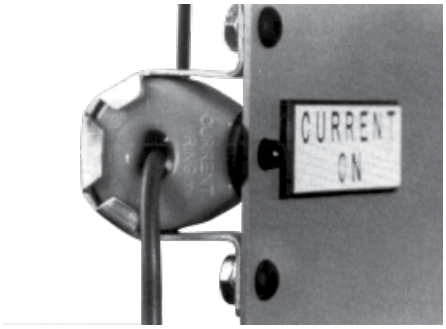
- Detects 50–1000 volts AC
- CAT3 & CAT4 rated
- Detects defective grounds
- No switch required - always ready to go!
- Buzzer will only react to an AC field - NOT static electricity
- Safety instrument - locates defective grounds, breaks in wires, energized circuits, blown fuses, etc.
- Non-conductive surfaces
- Personal verification - lockout/tagout procedures



Part Number VP200

VOLTAGE SENSOR

Current Rings are totally self-contained devices for detecting current flow. These devices provide a safe, economical way of indicating the presence of an absence of electrical current flow. The indicator is attached directly to a current-carrying wire. When the current exceeds the turn-on point, the LED will illuminate to indicate the presence of current.

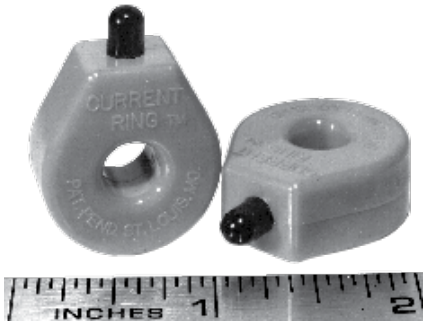


Applications

- Monitor status of heater element
- Observe remote loads
- Indicate phase loss
- Monitor motor operation

Features

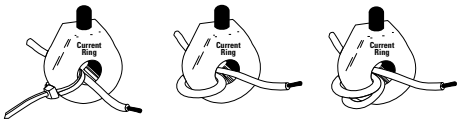
- Self-powered
- Red or green indicator
- Easy to install
- Supplied with plastic tie
- Bright yellow case for easy I.D.
- Panel-mounting bracket available



Specifications

Min. turn-on point:
2 AMPS for CR-45-R
2.5 AMPS for CR-45-G
Indicating Range:
2 to 100 AMPS (for CR-45-R)
2.5 to 100 AMPS (for CR-45-G)
Max. Continuous Current:
100 AMPS

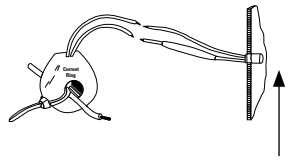
LED Type: TI ¾ diffused
LED Color: Red or green
Case Material: Thermoplastic
Case Color: Bright safety yellow
Weight: .5 oz.
Frequency: 50 – 60 Hz
Mounting Bracket Material:
Non-magnetic aluminum



F

Wire Passes	Turn-On Point		Max. Wire Diameter
	Red	Green	
1	2	2.5	.29
2	1	1.25	.14
3	.66	.83	.13
4	.5	.62	.12
N	2, N	2.5, N	

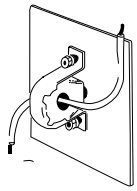
CURRENT RING INDICATORS



CR-19 Transformer

CR-25 Press-In Indicator

Part Number	Description
CR45R	Current Ring - Red
CR45G	Current Ring - Green
CR19	Current Transformer
CR25	Press-In Indicator
MB45	Mounting Bracket



Mounting Bracket

Analog & Digital Sound Level Meters

Check Noise Levels Economically

Features

- Tripod mount ideal for field use
- Analog output for connection to chart recorders, data loggers, etc.
- Selectable weighting ('A' or 'C') and response time (Fast or Slow)
- MAX HOLD front-panel select switch locks highest reading on the display
- Complete with battery

Applications

- Identify noise ordinance violations, traffic noise measurements, community noise measurements, theater acoustic studies, stereo balancing.

Specifications

	407706 Analog SLM	407730 Digital SLM
Range:	54 to 126 dB	40 to 130 dB
Accuracy:	± 3dB @ 94 dB,1000Hz	± 2dB @ 94 dB,1000Hz
Weighting:	'A' and 'C' (Selectable)	'A' and 'C' (Selectable)
Response time: (Selectable)	FAST and SLOW (Selectable)	FAST and SLOW
Microphone:	0.5 Electret Condenser Type	0.5 Electret Condenser Type
Analog output:	AC: 0.707 Vrms	AC: 0.707 Vrms
Power supply:	Heavy duty, 9V Battery	(4) AAA batteries
Dimensions:	2.7 × 7.1 × 1.4 (68 × 180 × 36mm)	2.2 × 9 × 1.7 (57 × 230 × 44mm)
Weight:	5.1 oz. (145g)	5.6 oz. (160g)

Digital Sound Level Meter

- Analog bargraph with 50 dB range updates every 40ms
- ± 2dB accuracy with 0.1 dB resolution
- AC analog output
- Complete with microphone wind-screen and four AAA batteries

Digital Sound Level Meter

Part Number 407730

True RMS Autoranging

Economical True RMS Multimeter with 11 functions

Features

- Advanced measurements include capacitance, frequency, and duty cycle
- Relative function for establishing a base line reference
- Easy-to-read large 4000 count backlit display
- True RMS AC measurements
- Type K thermometer built-in for surface or air temperature measurements
- Input fuse protection and mis-connection warnings with audible and visible signals
- Auto power off saves battery life
- Data hold freezes current display reading
- Ergonomically designed to fit comfortably in hand
- Protective holster with test lead holder
- Complete with CAT III test leads, multi-position tilt stand, hanging strap, holster with built-in test lead storage, bead wire temperature probe, and 9V battery

Specifications	Range
Basic Accuracy	± 0.3% (VDC)
AC/DC Voltage	0.1mV to 600V (DC/AC)
AC/DC Current	0.1μA to 20A
Resistance (Ω)	0.1Ω to 40MΩ
Capacitance	0.01nF to 100μF
Frequency	0.001Hz to 10MHz
Temperature	–4 to 1382°F (–20 to 750°C)
Diode/Continuity	0.1 to 99.9%
Dimensions/Weight	7.4 × 3.2 × 2" (187 × 81 × 50mm)/0.75 lbs (342g)

Part Number:EX430

F

1000A Clamp Meters

With IR Thermometer

Features

- Autoranging with manual range override
- Data hold, min./max, and auto power off
- Peak hold for inrush currents
- Dimensions: 10.6 × 4.3 × 2, weight 13.6 oz
- AC/DC voltage, resistance, capacitance and frequency
- Complete with test leads, 9V battery and belt holster

Specifications	
Display Counts	4000 count backlit LCD
Basic Accuracy	±3% rdg (AC)
AC/DC Volt (max res)	600V (0.1mV)
Resistance (max res)	40MΩ (0.1Ω)
Capacitance (max res)	40mF (0.001nF)

Specifications	
Frequency (max res)	4kHz (1Hz)
IR Temp	–58 to 518°F
	–50 to 270°C
Temp. Type K	–4 to 1832°F
(only on EX820)	–20 to 1000°C

Part Number EX810 (average responding)

Part Number EX820 (True RMS and Type K thermocouple temp. probe)

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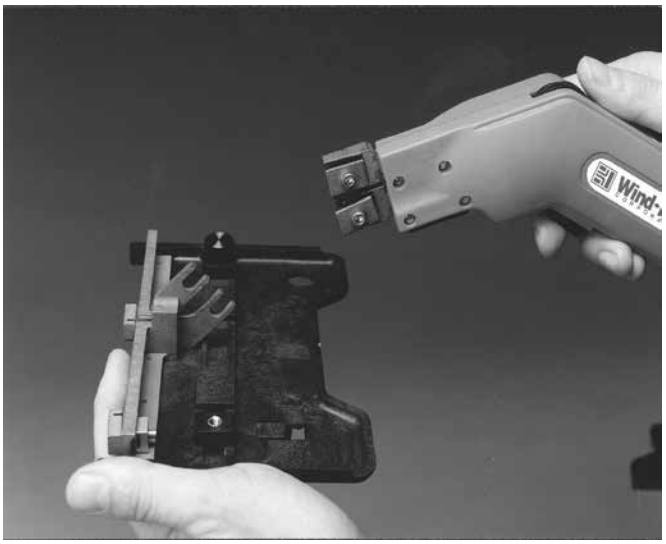
Quick Cut Hot Knife Kit

The groove sled attachment holds shaped blades up to 6″ wide and 3″ deep. A straight edge can be attached for perfectly straight cutting.



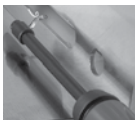
Buy the kit and save!

- QC hot knife
- 6″ sled
- 4″ straight blade
- 2 pc.—12″ flat blades
- Pro GateMouth® Jr. canvas bag

QCKIT

DEBURRING TOOLS

Shaviv Set B The Workhorse
Popular set for holes, slots & edges. Supports all B blades. Blades can be inserted axially or perpendicular to holder.



Straight Edge

Hole Edge

Deburrs steel, aluminum, copper, brass, cast iron and plastics.

Set Name	Part Number	Handle	Holder	Blades
Shaviv Set B	**3SBi**	Classic Handle A	B	B10 B20

Shaviv Set E Heavy DeBurr
Rugged deburring set for heavy-duty deburring of holes, slots and edges. Supports all E blades.

Straight Edge

Hole Edge

Cross-Hole (both edges)

Deburrs steel, aluminum, copper, brass, cast iron and plastics.

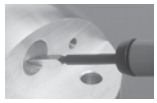
Set Name	Part Number	Handle	Holder	Blades
Shaviv Set E	**3SEi**	Classic Handle A	E & Mango Adapter E	E100 E200 E300

Shaviv Set C The Scraper
Features triangular blades with 3 cutting edges for high-quality finishing & scraping. The telescopic blade holder lets you get to difficult-to-reach areas. Includes key for safely removing blades.

Straight Edge

Hole Edge

Hole Back-Edge



Flat Surface

Hole Inner Surface

Deburrs steel, aluminum, copper, brass, cast iron, stainless steel and plastics.

Set Name	Part Number	Handle	Holder	Blades
Shaviv Set C	**3SCi**	Classic Handle A	C	C42

Shaviv Set F The Countersink
Powerful tool; excellent for chamfering and countersinking.

Hole Edge

Deburrs steel, aluminum, copper, brass, Cast iron, stainless steel and plastics.

Set Name	Part Number	Handle	Holder	Blades
Shaviv Set F	**3SFi**	Classic Handle A	F	F20

Shaviv Set B Aluminum The Workhorse
Popular set for holes, slots & edges. Supports all B blades. Blades can be inserted axially or perpendicular to holder.

Straight Edge

Hole Edge

Deburrs steel, aluminum, copper, brass, cast iron and plastics.

Set 1 Slot Edge Cleaner
The original set for heavy-duty deburring of holes and edges. Features a built-in, non-telescopic steel blade holder which holds blades close to handle.

Straight Edge

Hole Edge

Cross-Hole (both edges)

Deburrs steel, aluminum, copper, brass, cast iron and plastics.

Set Name	Part Number	Handle	Blades
Shaviv Set 1	**3S1i**	Handle 1	E100 E200 E300

Shaviv Set L External Pipe-Edge Cleaner
Great for removing burrs from the external edges of pipes and tubes; 0.79" (20mm) diameter and up. Holder L with metal roller.

Straight Edge Outer Edge

"A" side for spiral chips
"B" side for powdery chips

Deburrs steel, aluminum, copper, brass and plastics.

Set Name	Part Number	Handle	Holder	Blades
Shaviv Set L	**3SLi**	Classic Handle A	L	C10

Set HC Handy Chuck
Delivers pin vise versatility for finishing & scraping applications. Also used for gripping miniature files, drills, reamers, taps, wires, countersinks and other small objects–0.04"-0.32" (1-8mm) in diameter. Handy for asembling electronic components and watch repair.

Straight Edge

Hole Edge

Hole Back-Edge

Flat Surface

Hole Inner Surface

Deburrs steel, aluminum, copper, brass, cast iron, stainless steel and plastics.

Set Name	Part Number	Handle	Blades
Shaviv Set HC	**3SHC5i**	Handy Chuck	C50

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Deburring Tools by SHAVIV

DEBURRING TOOLS

Mango II Set B - The Workhorse

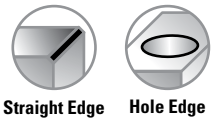
Popular set for holes, slots & edges. Supports all B blades. Blades can be inserted axially or perpendicular to holder.
Get the Mango II handle for maximum comfort.
Set includes the Mango II handle, The "B" blade holder, & one each B10 & B20 blades.

Deburrs steel, aluminum, copper, brass, cast iron and plastics.

Set Name	Part Number	Handle	Holder	Blades
Mango II Set B	**3SBViP**	Mango II	B	B10 B20

Mango II Set E - Heavy DeBurr

Rugged deburring set for heavy-duty deburring of holes, slots and edges. Supports all E blades. Get the Mango II handle for maximum comfort.
Set includes the Mango II handle, The "E" blade holder, & one each of E100, E200 & E300 blades.

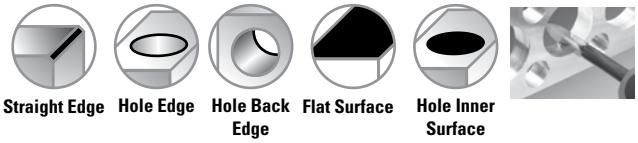


Deburrs steel, aluminum, copper, brass, cast iron and plastics.

Set Name	Part Number	Handle	Holder	Blades
Mango II Set E	**3SEViP**	Mango II	E	E100 E200 E300

Mango II Set C40 - The Scraper

Features triangular blades with three cutting edges for high-quality finishing & scraping. The telescopic blade holder gets to difficult-to-reach areas. Includes key for safely removing blades. Get the Mango II handle for maximum comfort.
Set includes the Mango II handle, the "C" blade holder, & one C40 blade.

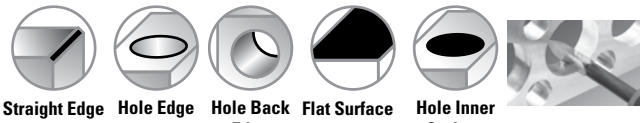


Deburrs steel, aluminum, copper, brass, cast iron, stainless steel and plastics.

Set Name	Part Number	Handle	Holder	Blades
Mango II Set C40	**3SC1ViP**	Mango II	C	C40

Mango II Set C - The Scraper

The telescopic blade holder gets to difficult-to-reach areas. Includes key for safely removing blades. Get the Mango II handle for maximum comfort.
Set includes the Mango II handle, the "C" blade holder, & one C42 blade.



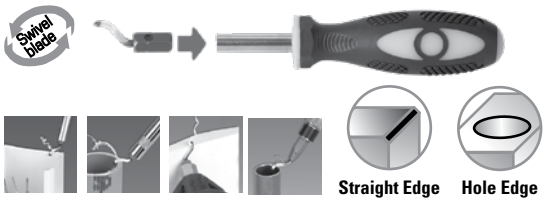
Deburrs steel, aluminum, copper, brass, cast iron, stainless steel and plastics.

Set Name	Part Number	Handle	Holder	Blades
Mango II Set C	**3SCViP**	Mango II	C	C42

*Bit fits in ANY 1/4" holder!*DIN 3126-C6, 3*ISO 1173

Finishing Bit Set - Patented

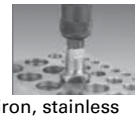
New generation finishing tool



Set Name	Part Number	Handle	Blades
Finishing Bit Set	**3SDBi**	Screwdriver Bit Holder	D1 Finishing Bit
Bit 4-Pack	**3FD1B12B4**	(4) D1 Finishing Bits	

Mango II Set FR

Features FR ratchet holder which is ideal for rotational chamfering even when workspace is limited. For inside diameter (ID) up to 0.79" (20mm). Get the Mango II handle for maximum comfort.
Set includes the Mango II handle, the "FR" blade holder, & one F20 blade.



Deburrs steel, aluminum, copper, brass, cast iron, stainless steel and plastics.

Set Name	Part Number	Handle	Holder	Blades
Mango II Set FR	**3SFRViP**	Mango II	FR	F20

DEBURRING TOOLS

Mango II Set F The Countersink

Powerful tool. Excellent for chamfering and countersinking. Get the Mango II handle for maximum comfort.

Set includes the Mango II handle, the "F" blade holder, & one F20 blade.

Hole Edge

F20

Deburrs steel, aluminum, copper, brass, cast iron, stainless steel and plastics.

Set Name	Part Number	Handle	Holder	Blades
Mango II Set F	**3SFViP**	Mango II	F	F20

Mango II Set L - External Pipe Edge Cleaner

Great for removing burrs from the external edges of pipes and tubes; 0.79" (20mm) diameter and up. Holder L with metal roller.

Set includes the Mango II handle, The "L" blade holder, & one L10 blade.

L10 blade

Straight Edge

Outer Edge

"A" side for spiral chips
"B" side for powdery chips

Deburrs steel, aluminum, copper, stainless steel and plastics.

Set Name	Part Number	Handle	Holder	Blades
Mango II Set L	**3SLViP**	Mango II	L	L10

Shaviv Bonus Packs

for Extra Close Work
Each Bonus Pack includes 10 blades and a FREE Mango IIB or Mango IIE handle
with hi-speed steel or cobalt blades.

Bonus packs feature plastic 10-pack packaging for easy storage and removal.

Sets with cobalt blades are excellent for longer blade life and great for high-end material such as stainless steel.

Set Name	Part Number	Handle	Holder	Blades
Mango IIB + B10	**29249**	Mango IIB	None	10 × B10
Mango IIE + E100	**29250**	Mango IIE	None	10 × E100
Mango IIB + B10S	**29255**	Mango IIB	None	10 × B10S
Mango IIE + E100S	**29251**	Mango IIE	None	10 × E100S

Shaviv Bonus Packs

for Long Reach Work
Each Bonus Pack includes 10 blades and a FREE Mango II handle, a "B" or "E" blade holder and
10 hi-speed steel or cobalt blades.

Bonus packs feature plastic 10-pack packaging
for easy storage and removal.

Sets with cobalt blades are excellent for longer blade life and great for high-end material such as stainless steel.

Set Name	Part Number	Handle	Holder	Blades
Mango II + B10 w/HLDR	**29252**	Mango II	B	10 × B10
Mango II + E100 w/HLDR	**29253**	Mango II	E	10 × E100
Mango II + B10S w/HLDR	**29256**	Mango II	B	10 × B10S
Mango II + E100S w/HLDR	**29254**	Mango II	E	10 × E100S

Kit Classic KWC

Universal Box Wooden Case
Excellent all-around deburring kit for your workshop.
All the tools you need for 1000+ applications.
Contains:

- Classic handle A
- Holders - B, C, D, E & F
- Blades - B10, B20, B30, B50, B60, B70, C40, C42, D80, E100, E200, E300, E350, E600 & F20

Set Name	Part Number
Kit Classic KWC	**3KWCi**

Shaviv Aeroburr Sets

for the Aviation/Aerospace/Medical Industries
Each Aeroburr Set includes 5 titanium nitride-coated blades for extra-long life over standard blades. along with a Mango II handle & a "B"
or "E" blade holder.
The titanium nitride-coated blades included are the B11P for standard applications or the E111P for heavy-duty applications. These blades are specially customized to deburr curves &holes as small as 1/16" .

Set Name	Part Number	Handle	Holder	Blades
Aeroburr Set B11P	**90110**	Mango II	B	5 × B11P
Aeroburr Set E111P	**90111**	Mango II	E	5 × E111P

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Deburring Tools by SHAVIV

Premium Kit

For Deburring & Deflashing
The perfect micro kit for deflashing plastics.
Convenient packaging for storing tools.
Contains:

- Mango II handle
- Cera-Burr ceramic blade tool
- Holders - B & E
- Blades - B10, B11, B25, E111, E250, E400 & E707

Set Name	Part Number
Premium Kit - Deburring & Deflashing	**29263**

Kit KPA Mango II

Plastics Deflashing
The perfect kit for deflashing plastics.
Contains:

- Mango II handle
- UB38 deburring tool
- Holders - B, E, G3 & LP
- Blades - B12, B25, E110, D700, G30 & L10

Set Name	Part Number
Kit KPA Mango II	**90102**

Glo-Burr B - The Rainbow Series

Popular, easy-to-grip deburring tools. Strong, yet lightweight. Features convenient pocket clip and blade storage. Each Glo-Burr B supplied with (one) B10 blade, but can hold other popular B blades.

Straight Edge **Hole Edge**

Deburrs steel, aluminum, copper and plastics.

Set Name	Color	Part Number
Glo-Burr B	Red	**3SUB2PiR**
	Blue	**3SUB2PiB**
	Green	**3SUB2PiG**
	Yellow	**3SUB2PiY**

Glo-Burr E - The Rainbow Series

Popular, easy-to-grip deburring tools. Strong, yet lightweight. Features convenient pocket clip and blade storage. Each Glo-Burr B supplied with (one) heavy-duty E100 blade, but can hold other popular B blades.

Straight Edge **Hole Edge**

Deburrs steel, aluminum, copper and plastics.

Set Name	Color	Part Number
Glo-Burr E	Red	**3SM2PiR**
	Blue	**3SM2PiB**
	Green	**3SM2PiG**
	Yellow	**3SM2PiY**

UB2 DisposaBurr - Uniburr

Popular, slim-grip deburring tools. Strong, yet lightweight. Features convenient pocket clip. Each UB2 is supplied with (one) B10 blade.

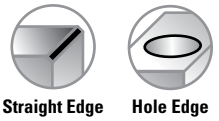
Straight Edge **Hole Edge**

Deburrs steel, aluminum, copper and plastics.

Set Name	Color	Part Number
UB2	Red	**3UB2RDWi**
	Blue	**3UB2BLWi**
	Green	**3UB2GRWi**
	Yellow	**3UB2YLBi**
	Black	**3UB2BKSi**

UB1 DisposaBurr - Uniburr

Popular, slim-grip deburring tools. Strong, yet lightweight. Features convenient pocket clip. Each UB1 is supplied with (one) heavy-duty E100 blade.



Straight Edge **Hole Edge**

Deburrs steel, aluminum, copper and plastics.

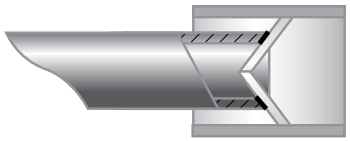
Set Name	Color	Part Number
UB1	Red	**3UB1RDWi**
	Blue	**3UB1BLWi**
	Green	**3UB1GRWi**
	Yellow	**3UB1YLBi**
	Black	**3UB1BKSi**

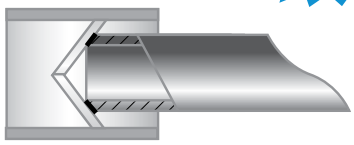
CERAMIC KNIVES

Plum-Burr Pipe Cleaner
Deburr tubing on both inner and outer edges. Excellent for plumbers, installers and electricians.

New!

CERAMIX





Plum-Burr Plastic

Inner Edge

Outer Edge

Set Name	Part Number
Plum-Burr Plastic	**15590083**
Plum-Burr Metal (heavy-duty)	**15590082**

Cera-Burr Ceramic Blade Tool
High-quality ceramic blade affixed on strong, lightweight handle. Excellent for deflashing plastics and deburring soft metals. The ideal tool to remove unwanted mold gate trim on plastic work pieces.

Straight Edge

Flat Surface

Slot/ Keyways

Sheet

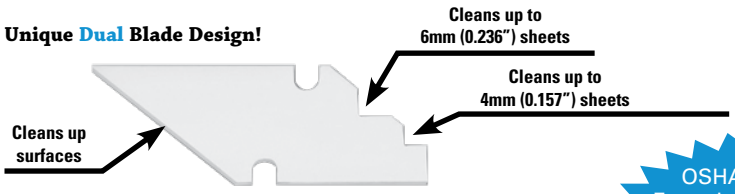
Mold Gate Trim

Set Name	Part Number	Handle	Blades
Cera-Burr	**15590084**	Glo-Burr	Permanent

Ceramix Set Q10 Ceramic Deflashing Tool
Heavy-duty handle with Ceramix™ Q10 blade. Adjust the cutting angle between the blade and the material for best results and to prevent scratches. Flip blade for two types of jobs.

CERAMIX

Unique Dual Blade Design!



Flip blade for 2 types of jobs!

OSHA Friendly! Even though ceramic blades remain sharp FAR longer than metal blades, it's practically impossible to cut yourself

Free standard utility blade provided with set!

Straight Edge

Flat Surface

Slot/Keyways

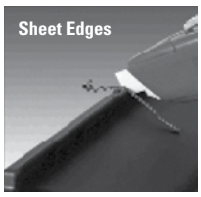
Sheet

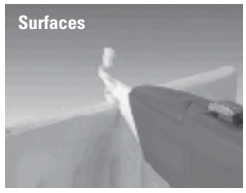
Hole Edges

Side 1: Surface Cleaner

Side 2: Sheet Edge Cleaner

Set Name	Part Number	Handle	Blades
Ceramix Set Q10	**3SQ10i**	Ceramix	Q10
Replacement Blade	**3BQ10**	1 Replacement Ceramic Blade	
Ceramix Set Q12	**Q12**	Ceramix	Q11
Replacement Blade	**Q11**	1 Replacement Ceramic Blade	





Deburring Holders/Blades

DEBURRING HOLDERS

Blade Holder B
Holds all B – series blades.

Set Name	Part Number
Blade Holder B	**3LB**

Blade Holder C
Holds C40 & C42 blades.

Set Name	Part Number
Blade Holder C	**3LC**

Blade Holder M
Holds both B – series & E – series blades.

Set Name	Part Number
M Holder	**3LM**

Blade Holder L
Holds the L10 blade.

Set Name	Part Number
Blade Holder L	**3LL**

Blade Holder E
Holds all E – series blades.

Set Name	Part Number
Blade Holder E	**3LE**

Blade Holder F
Holds all F – series blades.

Set Name	Part Number
Blade Holder F	**3LF**

Blade Holder FR
Ratchet holder for all F – series blades.

Set Name	Part Number
Blade Holder FR	**3LFR**

Blade Holder L5
Angled to offer easy access to work area. Holds L10 blades.

Set Name	Part Number
Blade Holder L5	**3LL5**

Shaviv TiN Blade B Multipack

for handling several standard deburring applications

Each Multipack Set includes 2 each of 5 different styles of TiN-coated blades for extra long life over standard blades.

Includes 2 ea. of B10P, B11P, B12P, B20P & B30P blades. All blades fit into SHAVIV "B" style handles and holders.

Set Name	Part Number	Blades
TiN-coated "B" MULTI-PACK	**29275**	2 × B10P, B11P, B12P, B20P & B30P

Shaviv TiN Blade E Multipack

for handling several heavy-duty deburring applications

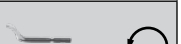
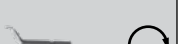
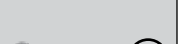
Each Multipack Set includes 2 each of 5 different styles of TiN-coated blades for extra long life over standard blades.

Includes 2 ea. of E100P, E110P, E111P, E200P & E300P blades. All blades fit into SHAVIV "E" style handles and holders.

Set Name	Part Number	Blades
TiN-coated "E" MULTI-PACK	**29274**	2 × E100P,E110P,E111P, E200P & E300P blades

Replacement blades located on following pages.

DEBURRING BLADES

Blade Name	Part Number	Description	Blade (work direction shown)
E100	**3BE100**	Heavy-duty HSS; deburrs materials with spiral chips	
E100C	**3BE100C**	Wear-resistant carbide; E100 geometry	
E100D	**3BE100D**	Diamond-coated; E100 geometry	
E100L	**3BE100L**	E100 for left-handed users	
E100P	**3BE100P**	PVDTiN-coated for high resistance to wear; E100 geometry	
E100S	**3BE100S**	Long-lasting, cobalt-enriched; E100 geometry	
E110	**3BE110**	E shaft, B10 cutting edge for materials with spiral chips; deburrs holes with min. diameter 0.08" (2mm)	
E110P	**3BE110P**	PVDTiN-coated for high resistance to wear; E110 geometry	
E111	**3BE111**	Thin-nosed HSS; deburrs holes with min. diameter 0.06" (1.5mm)	
E120	**3BE120**	E shaft, B20 cutting edge for materials with powdery chips; rotates both clockwise and counterclockwise	
E200	**3BE200**	HSS for materials with powdery chips; rotates both clockwise and counterclockwise	
E200P	**3BE200P**	PVDTiN-coated for high resistance to wear; E200 geometry	
E200C	**3BE200C**	Wear-resistant carbide; E200 geometry	
E250	**3BE250**	Specially designed for plastics; very thin, heavy-duty	
E300	**3BE300**	HSS for materials with spiral chips; simultaneously deburrs the inside and outside of holes up to 0.24" (6mm) thick	
E300P	**3BE300P**	PVDTiN-coated for high resistance to wear; E300 geometry	
E320	**3BE320**	HSS for materials with spiral chips; simultaneously deburrs the inside and outside of holes up to 0.24" (6mm) thick; Rotates both clockwise and counterclockwise	
E350	**3BE350**	HSS for materials with powdery chips; rotates both clockwise and counterclockwise	
E500C	**3BE500C**	Carbide tipped scriber; can be reground	
E600	**3BE600**	HSS; removes burrs from back edges of holes up to 0.8" (20mm) thick	
E601	**3BE601**	Extra-long HSS; removes burrs from back edges of holes up to 1.6" (40mm) thick	
E700	**3BE700**	HSS for materials with spiral chips; excellent for deburring & scraping inside thick-walled holes and cross-holes	
E720	**3BE720**	HSS for materials with powdery chips; excellent for deburring & scraping inside thick-walled holes and cross-holes; rotates clockwise & counterclockwise	
E750	**3BE750**	HSS specially designed for deburring rubber & soft plastics without poking or sticking into workpiece	
E755	**3BE755**	HSS for deburring corner edges of 0.04" (1mm) high steps	
E800	**3BE800**	HSS for materials with spiral chips; removes burrs from corner edges of shallow steps	
E10	**3BE10**	Long-lasting, cobalt-enriched for materials with spiral chips; ideal for heavy-duty jobs	

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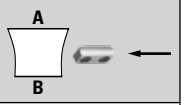
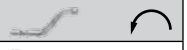
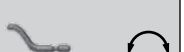
Deburring Blades

DEBURRING BLADES

Blade Name	Part Number	Description	Blade (work direction shown)
F12	**3BF12**	Countersink for hole edges with up to 0.5" (12mm) dia.	
F20	**3BF20**	Countersink for hole edges with up to 0.8" (20mm) dia.	
F30	**3BF30**	Countersink for hole edges with up to 1.18" (30mm) dia.	
F26X	**3BF26X**	Excellent for chamfering of pipes, tubes and other items with up to 1.02" (26mm) diameter	
L10	**3BL10**	HSS, 4 cutting edges; removes burrs from external edges, O.D. 0.79" (20mm) and up; "A" side deburrs materials with spiral chips; "B" side for powdery chips	
B10	**3BB10**	HSS; deburrs materials with spiral chips	
B10C	**3BB10C**	Solid carbide; B10 geometry	
B10D	**3BB10D**	Diamond-coated; B10 geometry	
B10L	**3BB10L**	B10 for left-handed users	
B10P	**3BB10P**	PVD TiN-coated for high resistance to wear; B10 geometry	
B10PL	**3BB10PL**	Long-lasting, cobalt-enriched; B10 geometry	
B10S	**3BB10S**	Extra-thin, HSS; deburrs holes with min. diameter 0.08" (2mm)	
B11	**3BB11**	Short-nosed; HSS	
B12	**3BB12**	Short-nosed; PVD TiN-coated for high resistance to wear	
B12P	**3BB12P**	E shaft; B20 cutting edge for materials with powdery chips; rotates both clockwise and counterclockwise	
B20	**3BB20**	HSS; rotates both clockwise and counterclockwise	
B20C	**3BB20C**	Solid resistant carbide; rotates both clockwise & counterclockwise	
B20P	**3BB20P**	PVD TiN-coated for high resistance to wear; rotates both clockwise & counterclockwise	
B25	**3BB25**	Thin-nosed; specially designed for plastics	
B25C	**3BB25C**	Solid carbide, thin-nosed; specially designed for abrasive plastics	
B30	**3BB30**	PVD TiN coated for high resistance to wear; E300 geometry	
B30P	**3BB30P**	Simultaneously deburrs the inside and outside of holes up to 0.16" (4mm) thick	
B32	**3BB32**	PVD TiN-coated for high resistance to wear; B30 geometry	
B50	**3BB50**	Carbide tipped scriber; can be reground	
B60	**3BB60**	HSS; removes burrs from back edges of holes up to 0.8" (20mm) thick	
B70	**3BB70**	Carbide tipped; deburrs sheet metal up to 1.18" (4.5mm) thick	
B1	**3BBN1**	Long-lasting, cobalt-enriched; deburrs materials with spiral chips	

Retractable Utility Knife

SK099 Utility Knife - Retractable Blade

- Three-position retractable blade - full, half and one-quarter out
- Furnished with 3 each SK-921 heavy-duty blades
- Blade storage in handle

STANLEY

Interlock™ Retractable Utility Knife

SK179 Interlock™ Utility Knife - Retractable Blade

- Interlocking design prevents nose spread
- Die cast zinc handle with diagonal ribs for non-slip grip
- Three-position retractable
  - furnished with 3 each SK-921 heavy-duty blades
- Blade storage in handle
- Recommended for heavy-duty cutting

STANLEY

Economy Retractable Utility Knife

SK175 Retractable Utility Knife - Economy Model

- Half zinc/half plastic body is durable and lightweight
- Interlock™ nose prevents nose spread
- Three-position retractable
- Blade storage in handle

STANLEY

Fixed Blade Utility Knife

SK299 Utility Fixed Blade

- Durable, die cast aluminum handle
- Furnished with one SK-911 blade
- Blade storage in handle

STANLEY

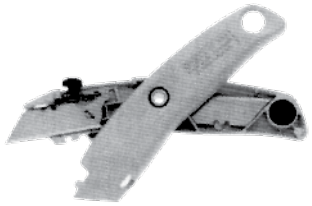
G

Swivel-Lock® Utility Knife

SK989 Swivel-Lock® Utility Retractable Blade

- The Swivel-Lock® knife body swivels open for quick and easy blade change
- Three-position retractable blade. Durable die cast aluminum body
- Furnished with 3 each SK-921 heavy-duty blades - blade storage in handle

Bright Yellow Color!



STANLEY

High Visibility Utility Knife

- Extra heavy-duty die cast body
- 3 position extension - includes 1 blade
- Overlapped tip to prevent spreading
- Smooth all metal slider
- Very popular
- Made for all-day use
- Accepts 2 notch blades

Made in U.S.A.

Safety Overlap

Our most popular knifes - the UK-500 and the new Neon UK-500N - feature this important safety feature.

High visibility - neon yellow

Part Number	Description
UK500	Overlapped tip, 3-position HD knife color: Dark Gray
UK500N	Same as above except color

Economy Fixed Blade Utility Knife

- Very ergonomic and comfortable to use
- Die cast body - includes 1 blade
- Low cost & durable
- Accepts 2 or 3 notch blades

Made in U.S.A.

Part Number
UK5

Heavy Duty Fixed Blade Utility Knife

Embossed texture finish is non-slip and durable - die cast, heavy-duty body. Texture works well with gloves or in hot weather; helps prevent slipping.

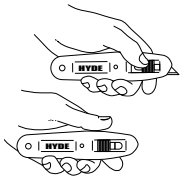
- Accepts 2 notch blades

Part Number
UK5HD

Self Retracting Utility Knife

"Quick Draw" Self-Retracting Utility Knife (Right or Left Hand)

Blade automatically retracts into handle when knife is released. Prevents many cuts and injuries. Blade length can be preset for either 5/16" or ½" exposure. Accepts regular blades or special safety blades. Bright orange, die cast body.



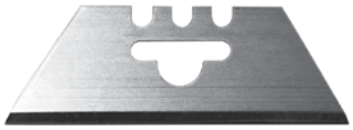
Part Number	Description
UK500QD	Quick-draw knife
UK500QD5	Blades with rounded tips - 5 per pack

Standard Utility Knife Blades

Two Notch Blades

Part Number	Description
UKB5	5 pack
UKB100	Box of 100
UKBB500	500 pc. bulk

Extra Sharp and Long Lasting!



Three Notch Blades

Part Number	Description
UKB	5 pack
UKBB	Box of 100
UKB500	500 pc. bulk

REPLACEMENT BLADES

Stanley® Utility Knife Blades

.017 & .025 Utility Knife Blades
High carbon steel for long life 100 - pack safety dispenser

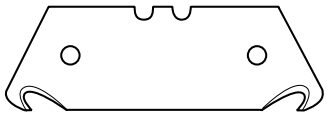
SK911A .017 thickness 2" length,

SK921A .025 thickness 2" length,
100 blades per safety dispenser 100 blades per safety dispenser

Hooked Utility Knife Blades

Part Number	Description
UKBH5	5 pack
UKBHB	Box 100 (20 × 5)

100 Pack Safety
Dispenser available in Standard and Hook Style



Fits all standard brands

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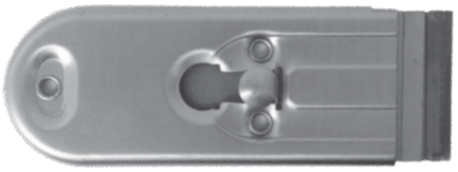
Straight Edge Blade Holder

Retractable

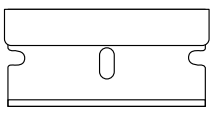
Part Number SEB1
* Does not come with blade

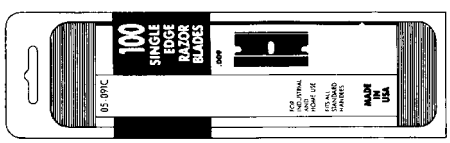
Made in U.S.A.



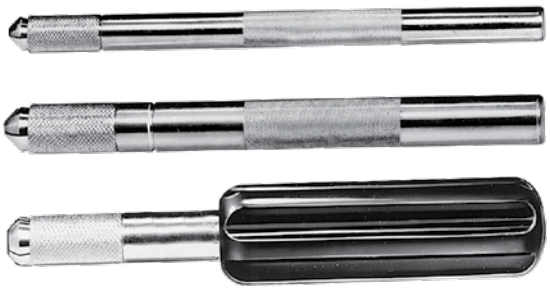
Straight Edge Blades

Part Number	Thick-ness	Package Qty.
SEB009-100	.009	100
SEB012-100	.012	100





Knife Handles



1 Light Aluminum Handle

2 Medium Aluminum Handle

5 Plastic Handle

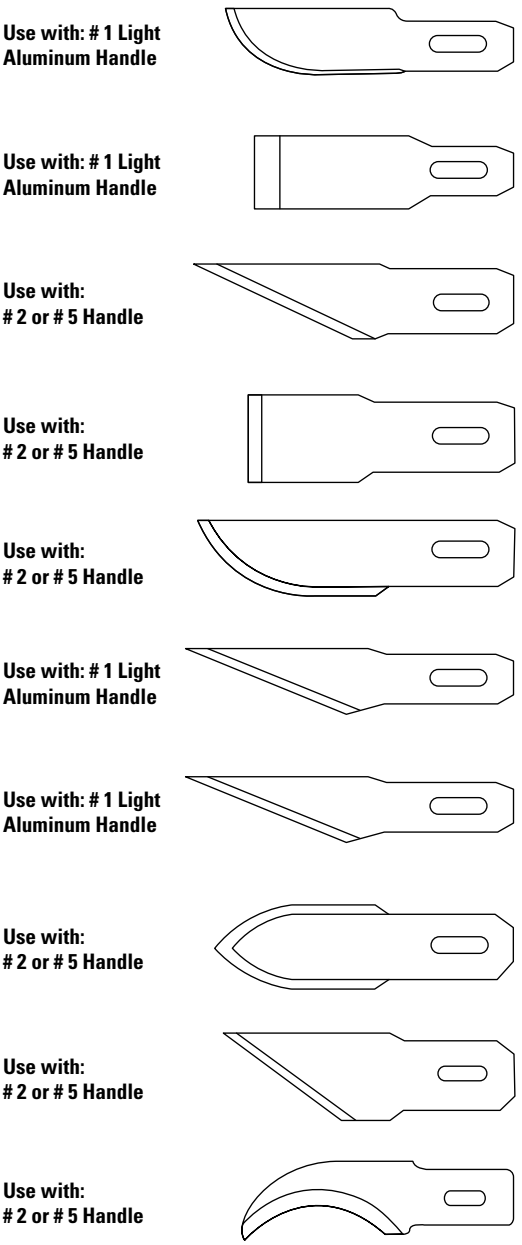
Part Number
1 Light Aluminum Handle
TK100
#2 Medium Aluminum Handle
TK200
#5 Plastic Handle
TK500

KNIFE HANDLES

Knife Blades

Part Number	Description
Blade #10	
TK110-5	5 pc. pack
TK110B	100 pc. pack
TK110B1	1000 pc. pack
Blade #17	
TK117-5	5 pc. pack
TK117B	100 pc. pack
TK117B1	1000 pc. pack
Blade #2	
TK202-5	5 pc. pack
TK202B	100 pc. pack
TK202B1	1000 pc. pack
Blade #18	
TK218-5	5 pc. pack
TK218B	100 pc. pack
TK218B1	1000 pc. pack
Blade #22	
TK222-5	5 pc. pack
TK222B	100 pc. pack
TK222B1	1000 pc. pack
Blade #11	
TK111-5	5 pc. pack
TK111B	100 pc. pack
TK111B1	1000 pc. pack
Blade #11 – Stainless	
TK111BS	100 pc. pack
TK111B1S	1000 pc. pack
Blade #23	
TK223-5	5 pc. pack
TK223B	100 pc. pack
TK223B1	1000 pc. pack
Blade #24	
TK224-5	5 pc. pack
TK224B	100 pc. pack
TK224B1	1000 pc. pack
Blade #28	
TK228-5	5 pc. pack
TK228B	100 pc. pack
TK228B1	1000 pc. pack

KNIFE BLADES



Use with: # 1 Light Aluminum Handle

Use with: # 1 Light Aluminum Handle

Use with: # 2 or # 5 Handle

Use with: # 2 or # 5 Handle

Use with: # 2 or # 5 Handle

Use with: # 1 Light Aluminum Handle

Use with: # 1 Light Aluminum Handle

Use with: # 2 or # 5 Handle

Use with: # 2 or # 5 Handle

Use with: # 2 or # 5 Handle

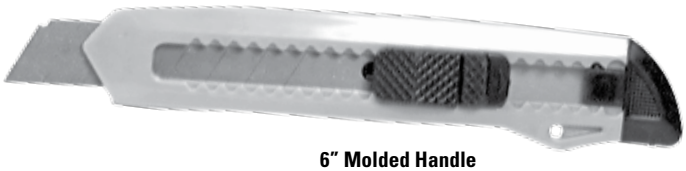
Standard Snap Knives

13 Point Standard Duty Knife
Part Number
SK100

8 Point Standard Duty Knife
Part Number
SK200

STANDARD SNAP

5" Molded Handle



6" Molded Handle

Heavy-Duty Snap Knives

- Aluminum channel handle for blade
- Long lasting
- Very durable
- 5 blade automatic load cartridge

8 Point Heavy Duty Knife
Part Number
SK200HD

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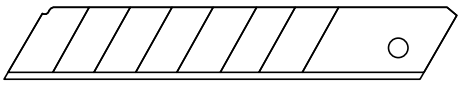
8 Point Blades

Part Number	Description
SK8-5	5 per card
SK8-100	100 pack
SK8B	650 bulk pack

REPLACEMENT BLADES



13 Point Blades

Part Number	Description
SK13-5	5 per card
SK13-100	100 pack
SK13B	800 bulk pack

Hose Cutters

HOSE CUTTERS

Standard Hose Cutter Cuts to 1½" I.D. Hose

- Rigid and sturdy
- Safe, quick & clean
- Replaceable high-carbon; PTFE-coated steel blade
- Blade closes into its own handle for safe carrying and handling
- Up to 8 times faster than sawing and deburring
- Cuts PE & PB through 1½" I.D.; PVC up to 1¼"
- Ideally suited to limited working space, the cutter adapts easily where a conventional hacksaw cannot be used

Part Number	Description
T135H	Hose Cutter
BT135	Blades for Cutter

X-Large Hose Cutter
Cuts up to 2" I.D. hose

- Cuts rubber hose and tubing through 2" I.D., P.E. through 1½" I.D.; class PVC through 1¼" I.D.

Part Number	Description
T200	XL Hose Cutter
BT200	Blades for Cutter

Selecting the Correct Gate Cutter for Your Application
To ensure a quality finished product, it is important to choose the proper gate cutter. Consider the following when selecting a cutter!

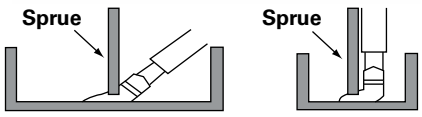
- Contour of the back of the blade The blade characteristics should match the part at the area of de-gating.
- Blade length Blade opening Handle length

Blade Contour
Flat Face:
For general purpose cutting where the sprue is fully accessible or proud of the cutting surface.

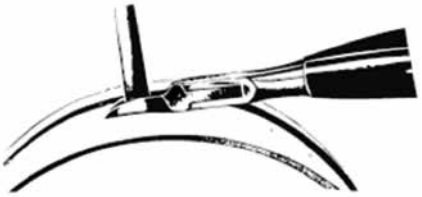
Nipper Type (slightly rounded):
For sprue cutting where access to the sprue may be slightly recessed.

Angle Heads:
For recessed sprue cutting and access to internal cavities.

Convex/Concave:
For special applications where the sprue is recessed.



Blade Stop:
When cutting hard or brittle material it is recommended to use a cutter with a blade stop. Adjusting the stop so the blades stop short of hitting each other will extend the life of the blades.



Handles:
How much pressure an operator must exert when cutting a sprue or determined by the length of the cutter handle. A handle that is too lo operator's hand is difficult to grip while a handle that is too short ca excessive strain. Match the cutter with the operator's hand and the sprue being cut. Ergonomic handles are an effective way to reduce operator fatigue and decrease the risk of carpal tunnel syndrom

	Handle Length	Blade Length	Blade Opening		Blade Stop	Ergonomic Handle	Weight Oz.
			Tip	Base			
Flat Face							
FF4	4-5/8″	11/16″	5/8″	3/16″			2-1/2
FF5A	5″	3/4″	5/8″	3/16″			3-1/4
FF5	5″	3/4″	5/8″	3/16″			3-1/4
GR5	5-3/4″	7/8″	3/4″	1/4″			4
FF6P	6″	3/4″	3/4″	1/4″	Yes		4-5/8
FF6A	6-1/4″	13/16″	7/8″	1/4″			4-1/2
FF6	6-1/8″	13/16″	3/4″	3/16″			4-1/2
FF6EL	6-1/8″	7/8″	3/4″	1/4″		Yes	4-1/2
FF6ER	6-1/8″	7/8″	3/4″	1/4″		Yes	4-1/2
FF7P	7-1/2″	1″	1″	1/4″	Yes		7-1/2
FF7A	7-1/2″	1″	1″	1/4″			7-1/2
FF7	7-1/2″	1″	1″	1/4″			7-1/2
FF7EL	7-1/2″	1-1/16″	1″	1/4″		Yes	7-1/2
FF7ER	7-1/2″	1-1/16″	1″	1/4″		Yes	7-1/2
FF8	8″	1-1/4″	1-1/8″	3/8″			11-1/4
Nipper Type							
S4	4-5/8″	11/16″	11/16″	3/16″			2-1/2
S5	5″	3/4″	5/8″	1/8″			3-1/4
S5A	5″	9/16″	1/4″	1/16″			3-1/4
S6A	6″	13/16″	7/8″	5/16″			5
S6P	6″	3/4″	3/4″	1/4″	Yes		5
S6	6-1/8″	7/8″	3/4″	3/16″			5
S6EL	6-1/8″	7/8″	3/4″	1/4″		Yes	5
S6ER	6-1/8″	7/8″	3/4″	1/4″		Yes	5
S7A	7-1/2″	1″	1″	1/4″			7-1/2
S7	7-1/2″	1″	1″	1/4″			7-1/2
S7EL	7-1/2″	1-1/16″	1″	1/4″		Yes	7-1/2
S7ER	7-1/2″	1-1/16″	1″	1/4″		Yes	7-1/2
S8	8″	1-1/4″	1-1/8″	3/8″			11-1/4
Angle Head							
GA5	5-7/8″	1″	3/4″	1/4″			4-1/2
GA7	6-1/2″	1″	3/4″	1/4″			5-1/2
GA6	5-1/2″	3/4″	3/8″	3/8″			7-1/2
GA6A	5-3/4″	3/4″	1/2″	1/2″			5-1/2
Convex/Concave							
GCX5	5-7/8″	7/8″	5/16″	1/4″			5-3/8
GCX6	6-3/8″	1″	1/2″	3/8″			5-11/16
GCC5	5-5/8″	7/8″	3/8″	1/4″			5-3/8
End Cutters							
24EF	4-1/2″	1/4″	3/16″	NA			2-1/4
25EF	5-3/4″	3/8″	7/16″	NA			3-7/8
Force Multiplying							
WA1000	6-3/8″	11/16″	3/8″	1/8″			5-1/2
Mini Nippers							
NM008	5″	1/2″	1/2″	1/4″			2
NM009	5″	1/2″	3/8″	1/4″			2
CN5-51	4-1/2″	5/8″	5/16″	3/16″			3-1/2

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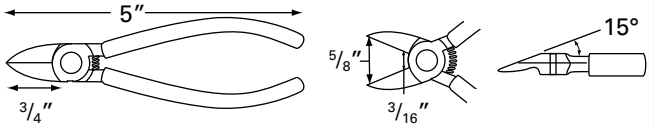
STANDARD GATE CUTTERS

5" Flat Faced Cutter

Part Number FF5A
Ref. Number PL550
3¼ Oz. Wgt.

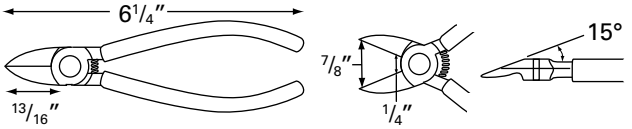


6" Flat Faced Cutter

Part Number FF6A
Ref. Number PL560
4½ Oz. Wgt.

Low profile

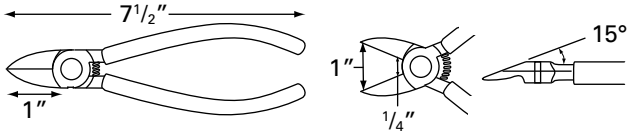
Flat Face for flush cutting



STANDARD GATE CUTTERS

7" Flat Faced Cutter
Part Number FF7A
Ref. Number PL570
7½ Oz. Wgt.

Flat Face for flush cutting



Holsters

Single and Double Clip-on Gate Cutter Holsters clip on plier sheath for gate cutters, knives, flashlights and more! Easily clips on top of pants. No belt required. Made of durable, lightweight, reinforced nylon. Made in USA.

CO2
7" × 3" Single Clip-on Holster

CO13

CO4
8" × 3" Double Clip-on Holster

Gate Cutter Holsters with Security Flap

7" Universal Single Holder CO12 (not shown)

Double Plier Holder CO13

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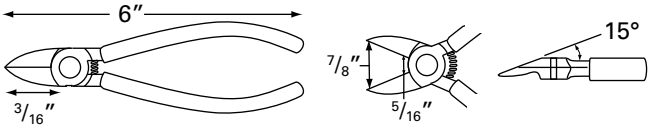
STANDARD GATE CUTTERS

6" Nipper (Rounded Back)
Part Number S6A
5 Oz. Wgt.

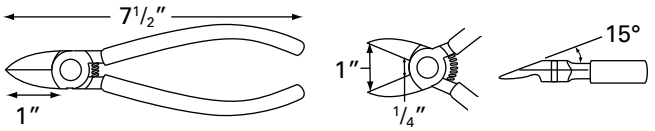
Low profile

Slightly rounded back



7" Nipper (Rounded Back)
Part Number S7A
7½ Oz. Wgt.

Slightly rounded back



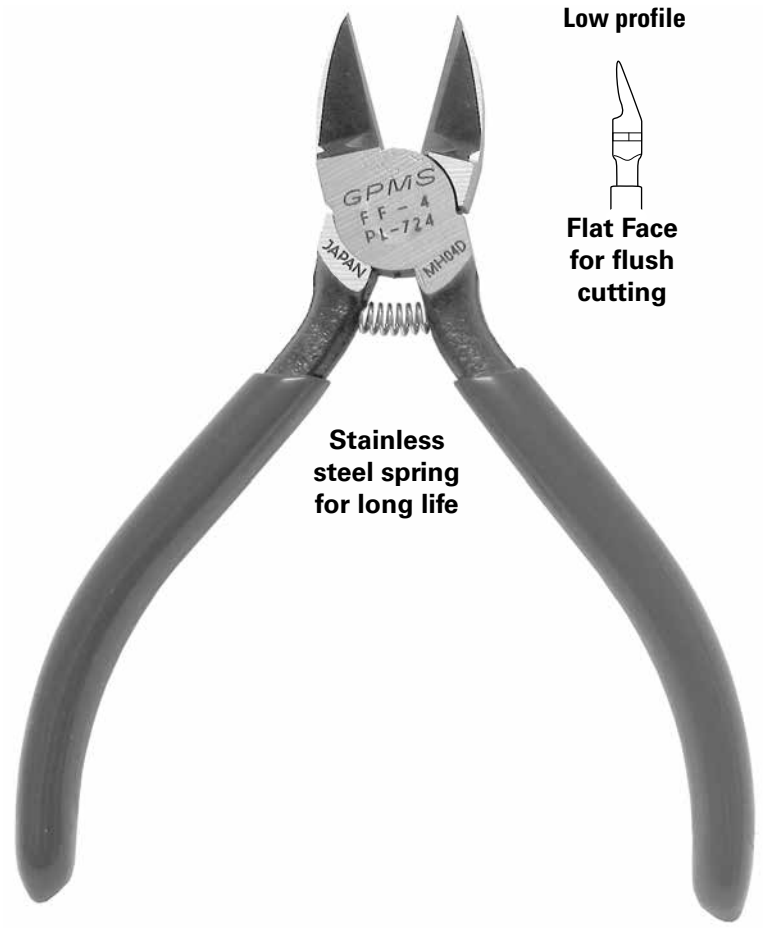
4" Flat Faced Cutter
Part Number FF4
Ref. Number PL724
2½ Oz. Wgt.

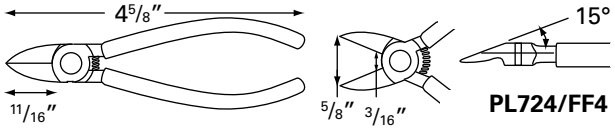
Spare springs PSPG2

PREMIUM GATE CUTTERS

GLOBAL PLASTIC MOULDING SUPPLIES

- Precision-ground and hardened, ultra-sharp cutting blades
- Precision blades cut with a 'snap'
- Small size cutter - ideal for lightweight jobs and frequent use





Premium Gatecutters

5" Flat Faced

GLOBAL PLASTIC MOULDING SUPPLIES

Special Plastic Cutting Pliers

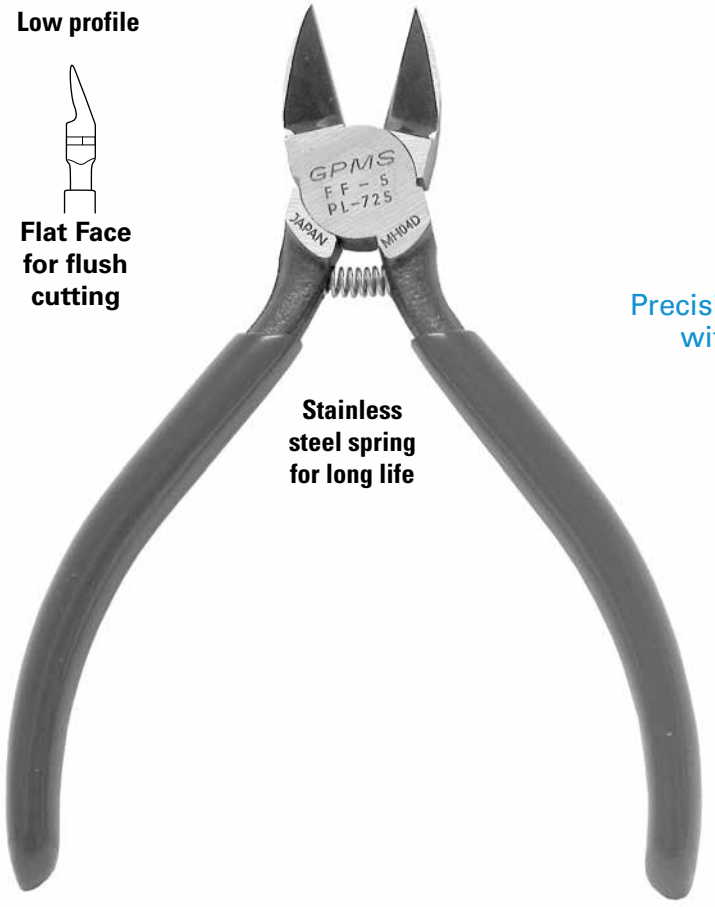
Flat Back for flush cutting - top quality

5" Flat Faced Cutter
Part Number FF5 Ref. Number PL725
3¼ Oz. Wgt.
Spare springs PSPG2

PREMIUM GATE CUTTERS

Low profile

Flat Face for flush cutting

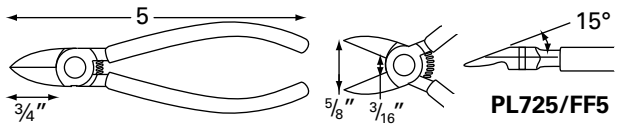


Stainless steel spring for long life

Precision blades cut with a 'snap'

Made from our own dies

Best Quality!



PL725/FF5

Note: *Repetitive hand action can lead to incidence of repetitive use syndrome (carpal tunnel). Ergonomic cutters shown on the following pages are recommended; however, operators should take frequent rests and use wrist support.*

6" Flat Faced

Specially Designed for the Plastics Industry...
Our most popular model!

UNIQUE... made from our own dies and produced in large quantities, this flat-faced, flush-cutting plier is ideal for small to medium parts where much repetitious cutting is involved. Lightweight and good balance reduce operator fatigue without sacrificing quality..... AND the price is right!

GLOBAL PLASTIC MOULDING SUPPLIES

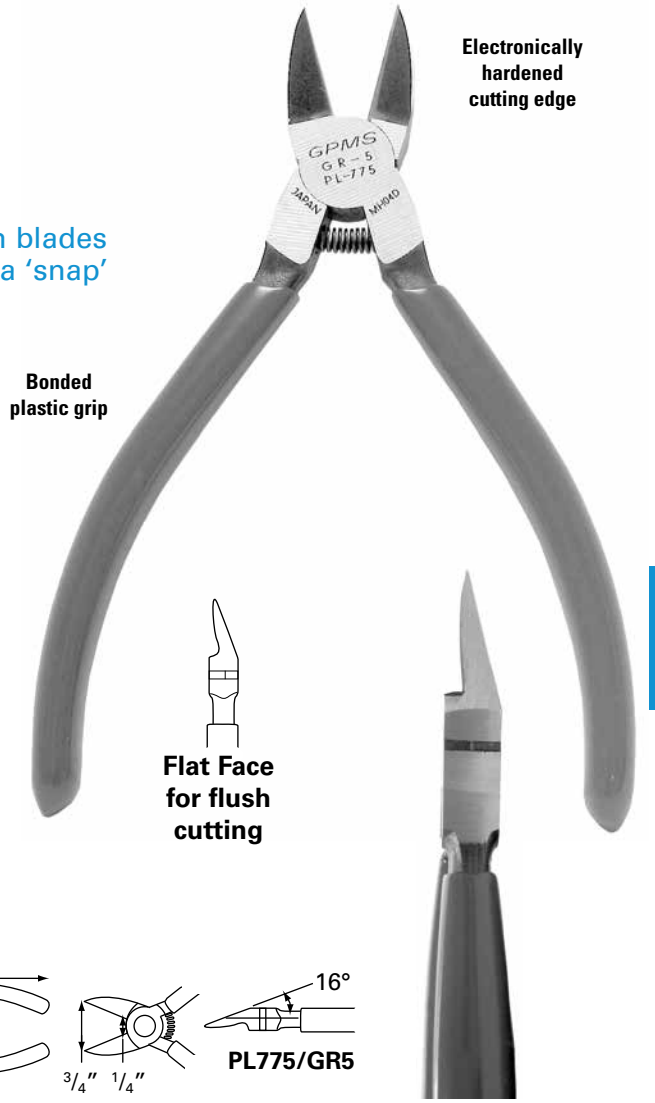
6" Flat Faced Cutter
Part Number GR5
4 Oz. Wgt.

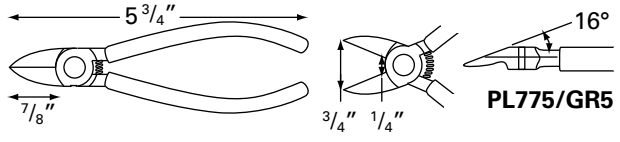
New Hardened Spring...
5 times longer life!!!

Years of research have produced this new spring... good for 100,000+ cuts vs. 20,000 average for most pliers.

Lightweight (4 oz.)
+ perfect balance =
less operator fatigue

Precision blades cut with a 'snap'





PREMIUM GATE CUTTTERS

Note: Repetitive hand action can lead to incidence of repetitive use syndrome (carpal tunnel). Ergonomic cutters shown on the following pages are recommended; however, operators should take frequent rests and use wrist support. Spare springs PSPG2

Premium Gatecutters

6" Flat Faced

GLOBAL PLASTIC MOULDING SUPPLIES

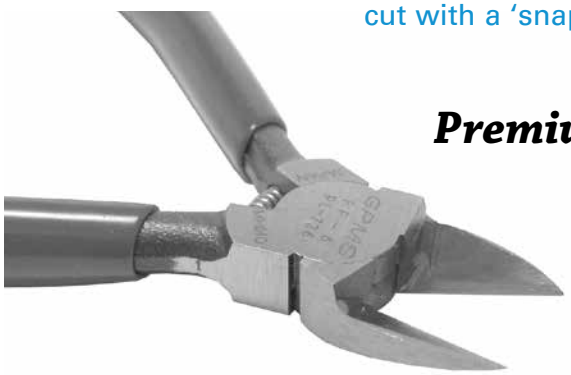
6" Flat Faced Cutter
Part Number FF6
Ref. Number PL726
4½ Oz. Wgt.

Spare springs PSPG2

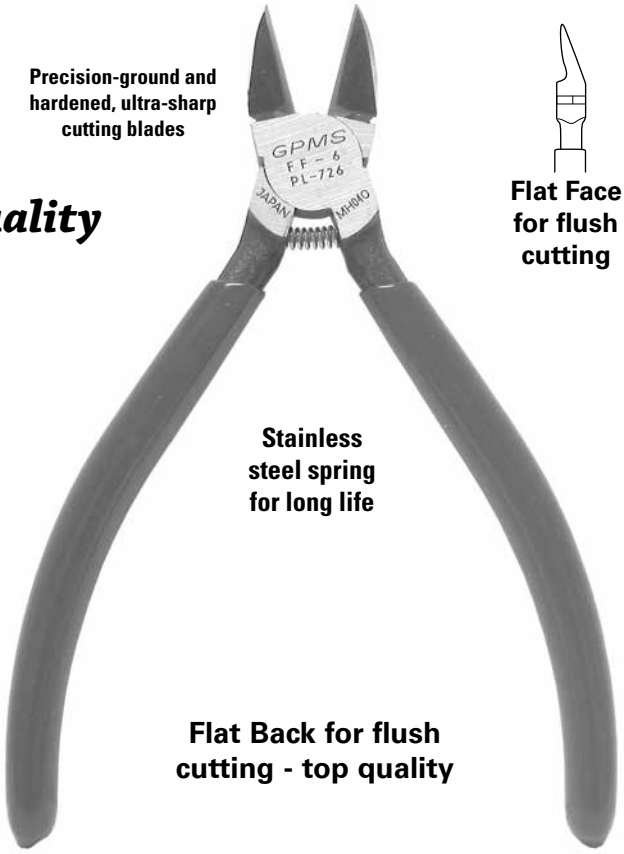
Precision blades cut with a 'snap'

Special Plastic Cutting Pliers

Precision-ground and hardened, ultra-sharp cutting blades

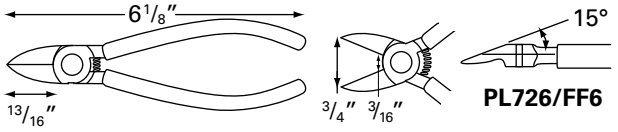


Premium Quality



Flat Face for flush cutting

Stainless steel spring for long life



PL726/FF6

Flat Back for flush cutting - top quality

Low profile

Made from our own dies
Best quality!

PREMIUM GATE CUTTERS

Note: *Repetitive hand action can lead to incidence of repetitive use syndrome (carpal tunnel). Ergonomic cutters shown on the following pages are recommended; however, operators should take frequent rests and use wrist support.*

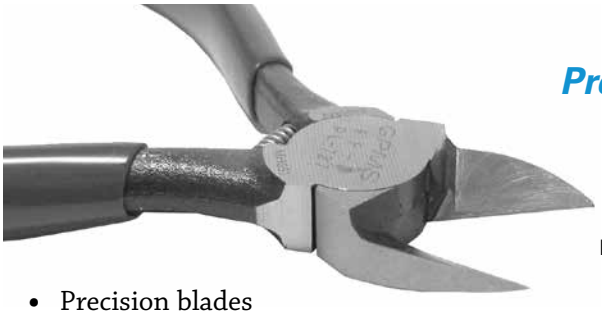
7" Flat Faced

7" Flat Faced Cutter
Part Number FF7
Ref. Number PL727
7½ Oz. Wgt.

Spare springs PSPG3

GLOBAL PLASTIC MOULDING SUPPLIES

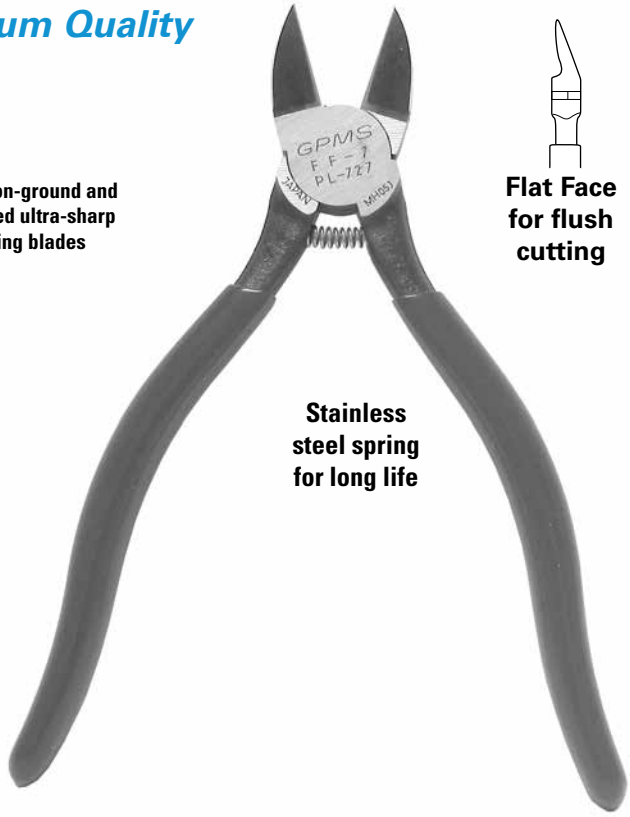
Special Plastic Cutting Pliers
Flat Back for flush cutting -
Top quality!



- Precision blades cut with a 'snap'

Premium Quality

Precision-ground and hardened ultra-sharp cutting blades

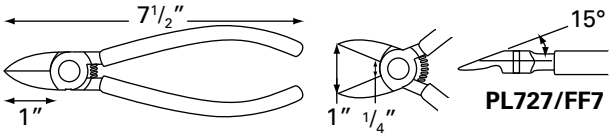


Flat Face for flush cutting

Low profile

Stainless steel spring for long life

Made from our own dies
Best Quality!



PL727/FF7

G

PREMIUM GATE CUTTERS

Premium Gatecutters

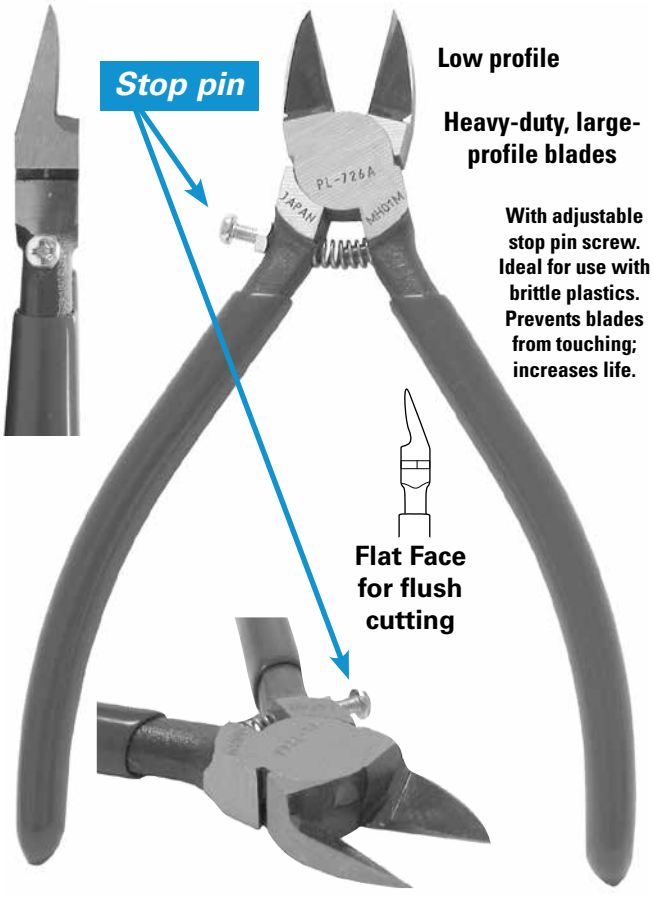
6" & 7" Flat-Faced Adjustable Stop

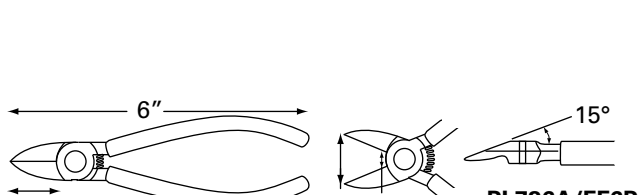
6" Flat Faced Cutter
Part Number FF6P
Ref. Number PL726A
4⅝ Oz. Wgt.

Spare springs PSPG3

Rugged Flatback Cutters or Heavy Sprues
With stop pin - prolongs blade life

GLOBAL PLASTIC MOULDING SUPPLIES

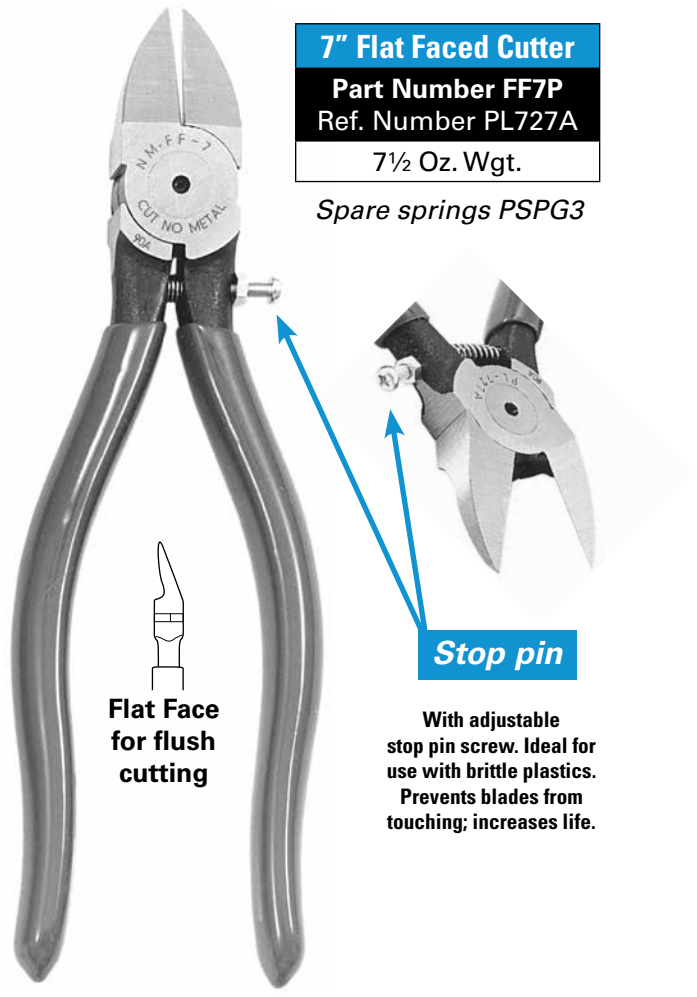


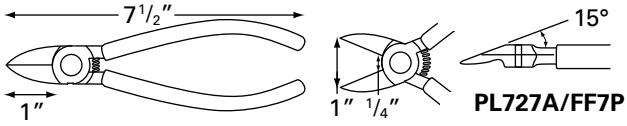


PL726A/FF6P

7" Flat Faced Cutter
Part Number FF7P
Ref. Number PL727A
7½ Oz. Wgt.

Spare springs PSPG3





PL727A/FF7P

PREMIUM GATE CUTTERS

8" Flat Faced

Special Plastic Cutting Pliers

Flat Back for flush cutting - top quality!

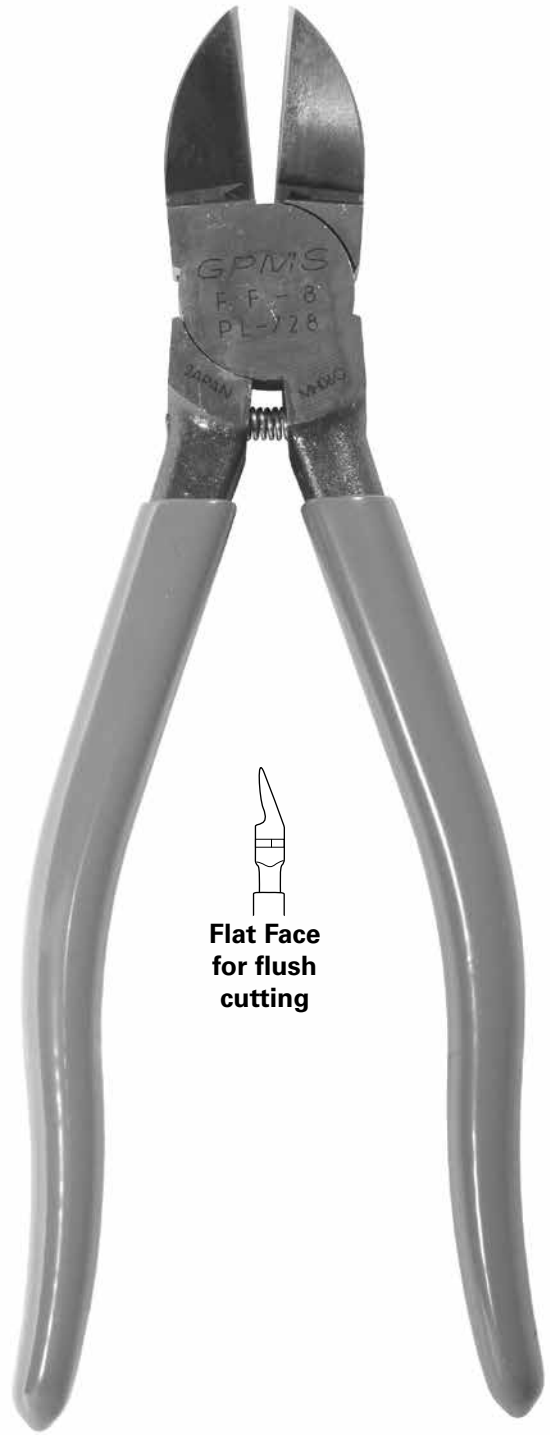
8" Flat Faced Cutter
Part Number FF8
11¼ Oz. Wgt.

Spare springs PSPG3

GLOBAL PLASTIC MOULDING SUPPLIES

PREMIUM GATE CUTTERS

Precision blades cut with a 'snap'

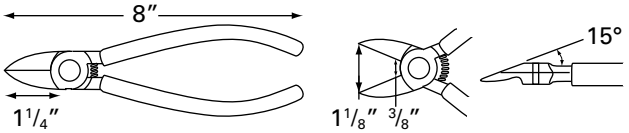


Premium Quality

Precision-ground and hardened, ultra-sharp cutting blades

Flat Face for flush cutting

Made from our own dies
Best quality!



Premium Gatecutters

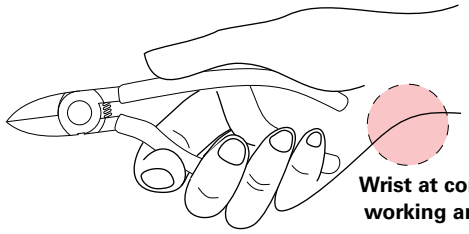
6" Flat Faced Ergonomic Cutters

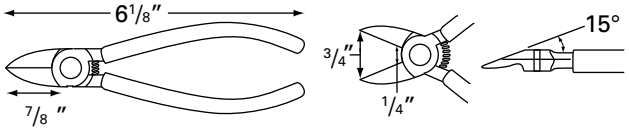
GLOBAL PLASTIC MOULDING SUPPLIES

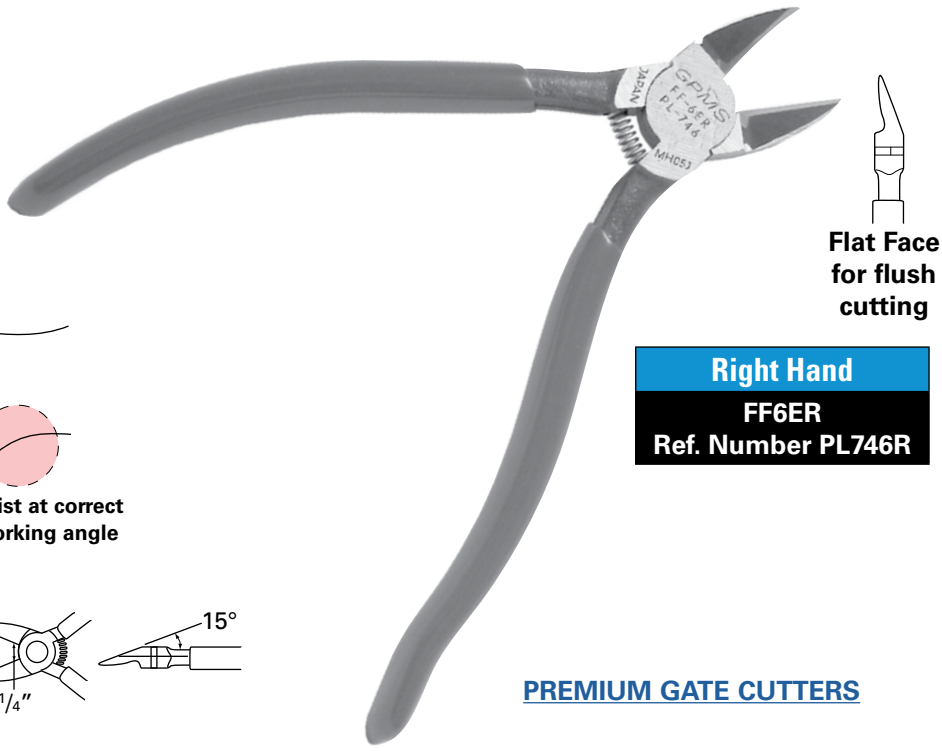
Ergonomic cutters – Help prevent carpal tunnel syndrome

Left Hand
FF6EL
Ref. Number PL746L

Spare springs PSPG2







Right Hand
FF6ER
Ref. Number PL746R

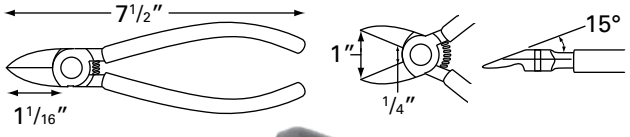
PREMIUM GATE CUTTERS

Premium Gatecutters

7" Flat Faced Ergonomic Cutters

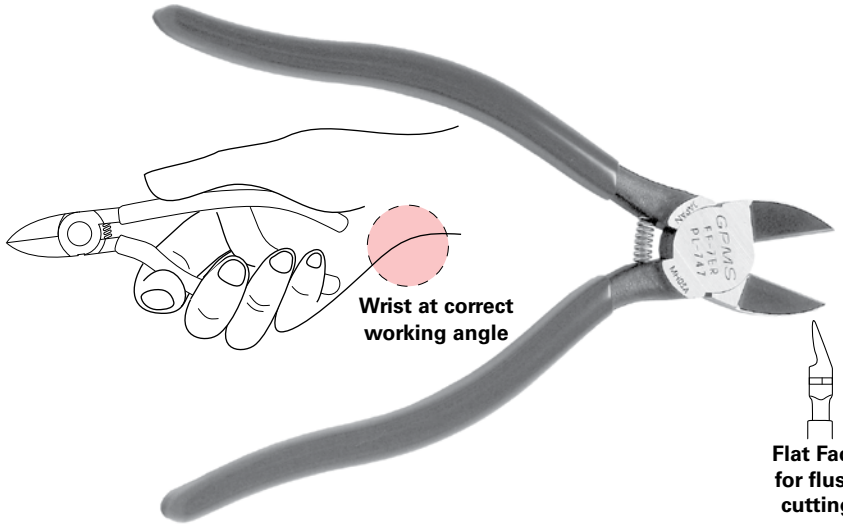
Ergonomic cutters – Ideal for repetitive jobs

Left Hand
FF7EL
Ref. Number PL747L



Right Hand
FF7ER
Ref. Number PL747R

Spare springs PSPG2



Premium Gatecutters

4" & 5" Nipper Type Cutters

4" Nipper (rounded back)
Part Number S4
Ref. Number PL714
2½ Oz. Wgt.

Spare springs PSPG2

Small but with strong head -
for limited access, tough cutting jobs

Made from our own dies
Best quality!

GLOBAL PLASTIC MOULDING SUPPLIES

5" Nipper (rounded back)
Part Number S5A
3¼ Oz. Wgt.

Spare springs PSPG4

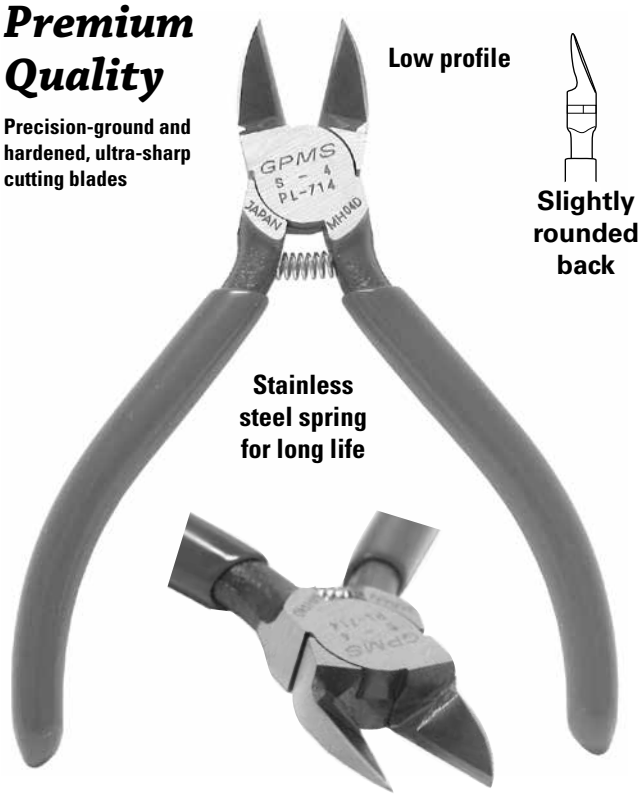
Precision blades cut with a 'snap'

Premium Quality

Precision-ground and hardened, ultra-sharp cutting blades

Low profile

Slightly rounded back



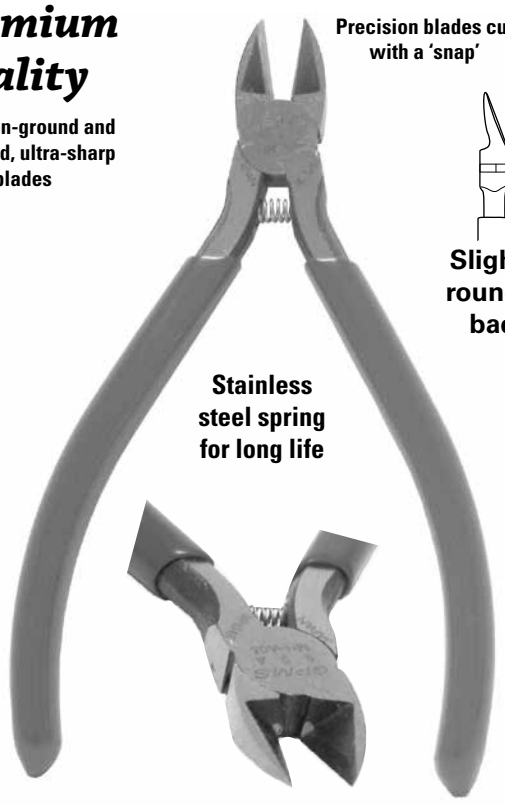
Stainless steel spring for long life

Precision blades cut with a 'snap'

Premium Quality

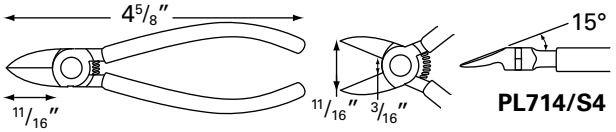
Precision-ground and hardened, ultra-sharp cutting blades

Slightly rounded back

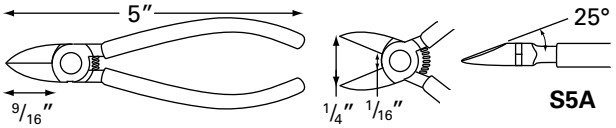


Stainless steel spring for long life

PREMIUM GATE CUTTERS



PL714/S4



S5A

Premium Gatecutters

5" & 6" Nipper Type Cutters

5" Nipper (rounded back)
Part Number S5
Ref. Number PL715
3¼ Oz. Wgt.

Spare springs PSPG2

GLOBAL PLASTIC MOULDING SUPPLIES

Thin Points - slightly rounded back - flush cutting

Premium Quality

6" Nipper (rounded back)
Part Number S6
Ref. Number PL716
5 Oz. Wgt.

Spare springs PSPG2

Precision blades cut with a 'snap'

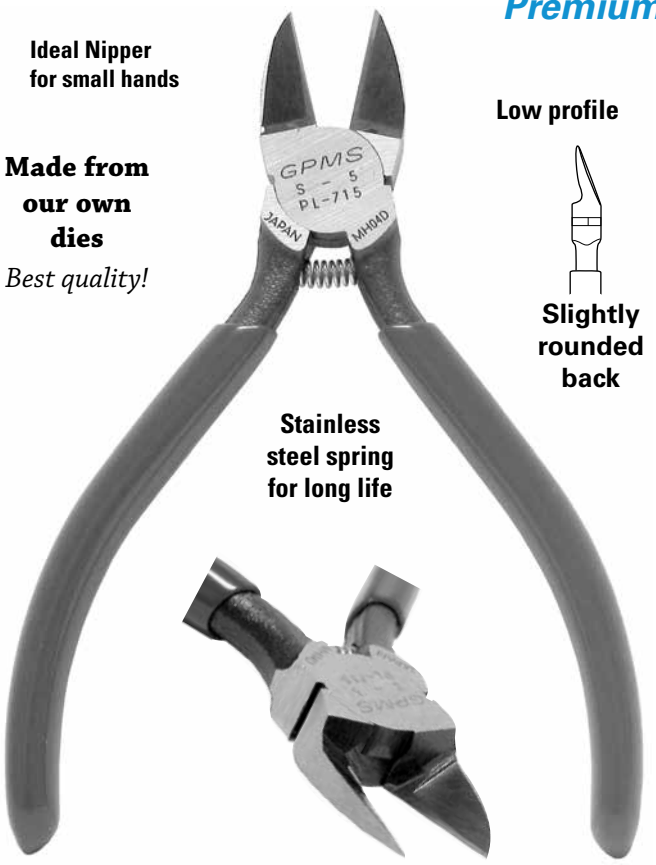
Ideal Nipper for small hands

Made from our own dies
Best quality!

Low profile

Slightly rounded back

Stainless steel spring for long life



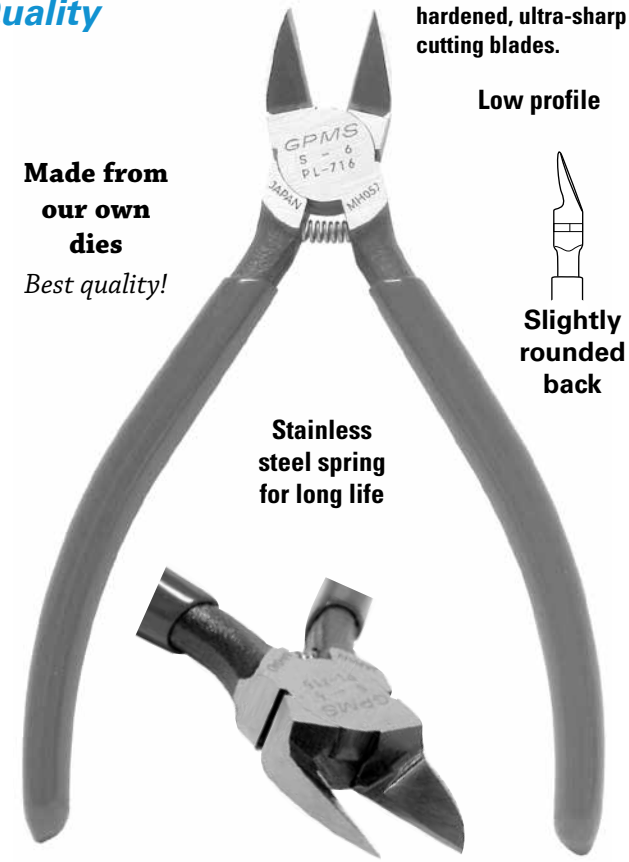
Precision-ground and hardened, ultra-sharp cutting blades.

Low profile

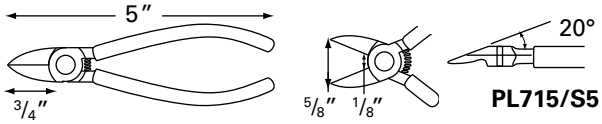
Made from our own dies
Best quality!

Slightly rounded back

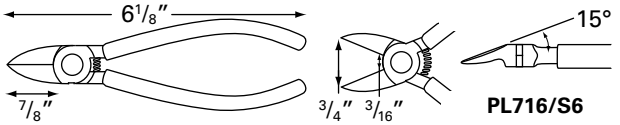
Stainless steel spring for long life



PREMIUM GATE CUTTERS



PL715/S5



PL716/S6

Premium Gatecutters

6" w/ Adjustable Stop & 7" Nipper Type Cutters

6" Nipper (rounded back)
Part Number S6P
Ref. Number PL716A
5 Oz. Wgt.

Spare springs PSPG3

GLOBAL PLASTIC MOULDING SUPPLIES

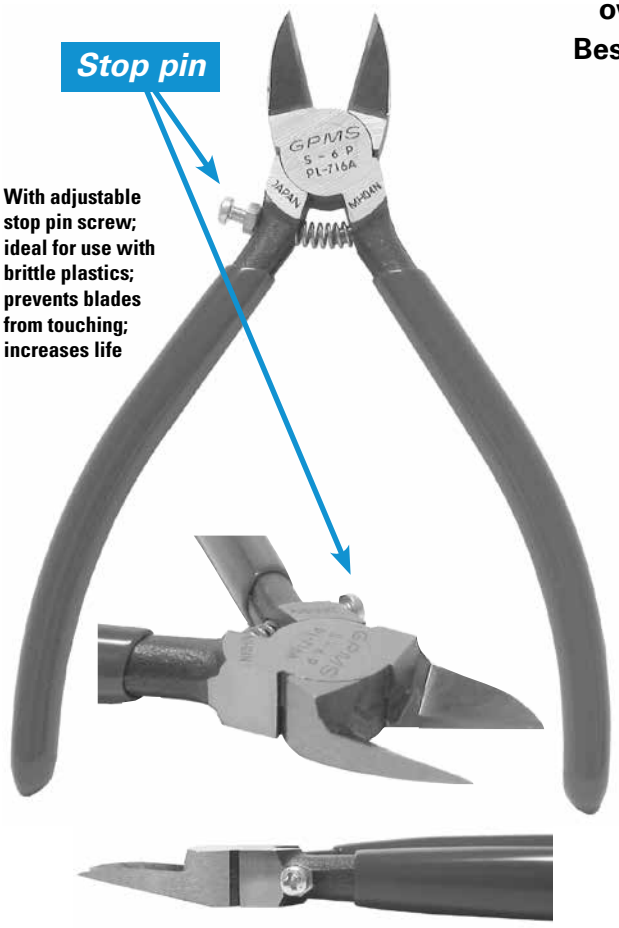
Made from our own dies
Best quality!

7" Nipper (rounded back)
Part Number S7
Ref. Number PL717
7½ Oz. Wgt.

Spare springs PSPG3

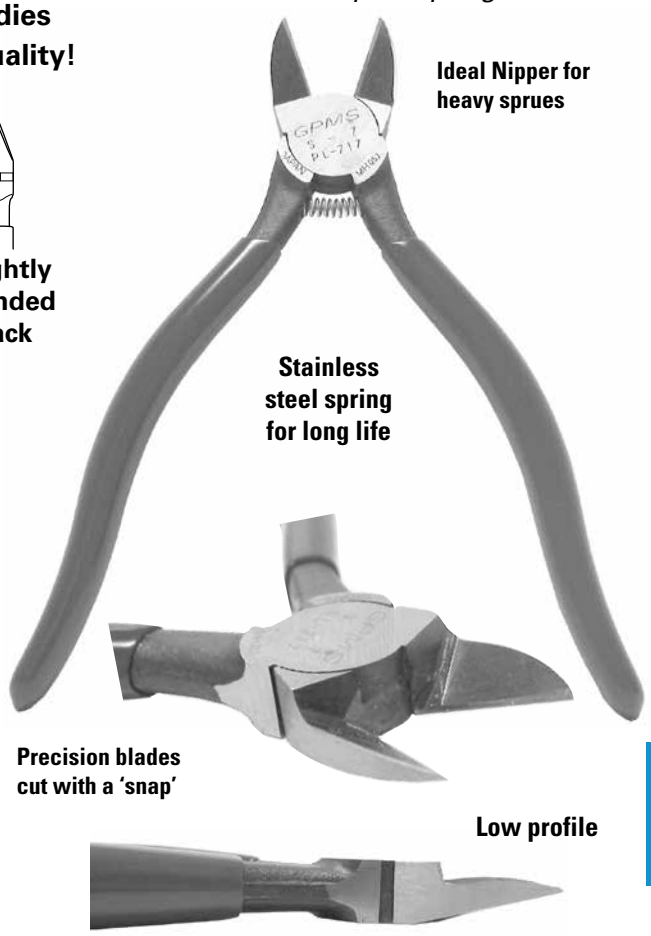
Stop pin

With adjustable stop pin screw; ideal for use with brittle plastics; prevents blades from touching; increases life



Slightly rounded back

Ideal Nipper for heavy sprues

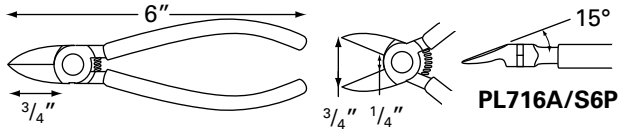


Stainless steel spring for long life

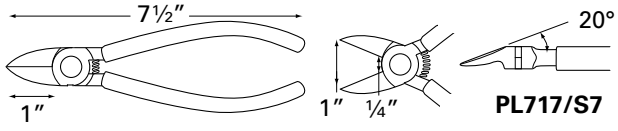
Precision blades cut with a 'snap'

Low profile

PREMIUM GATE CUTTERS



PL716A/S6P



PL717/S7

Premium Gatecutters

8" Nipper Type Cutters

GLOBAL PLASTIC MOULDING SUPPLIES

Premium Quality

Special Plastic Cutting Pliers

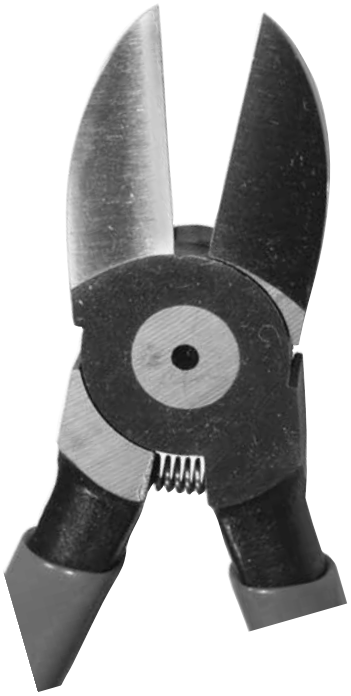
Thin Points - slightly rounded back - flush cutting

8" Nipper (rounded back)
Part Number S8
11¼ Oz. Wgt.

Spare springs PSPG3

Made from our own dies

Best quality!

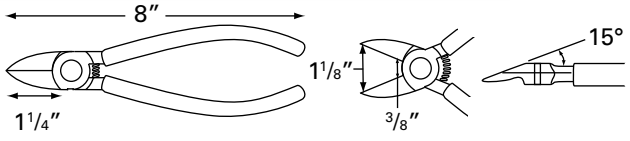


Precision blades cut with a 'snap'

Precision-ground and hardened, ultra-sharp cutting blades

Slightly rounded back

[PREMIUM GATE CUTTERS]



Part Number GA5
Ref. Number PL756
4½ Oz. Wgt.

Spare springs PSPG2

GLOBAL PLASTIC MOULDING SUPPLIES

Part Number GA7
Ref. Number PL757
5½ Oz. Wgt.

Spare springs PSPG2

Angled Cutters - Ideal for recessed sprues

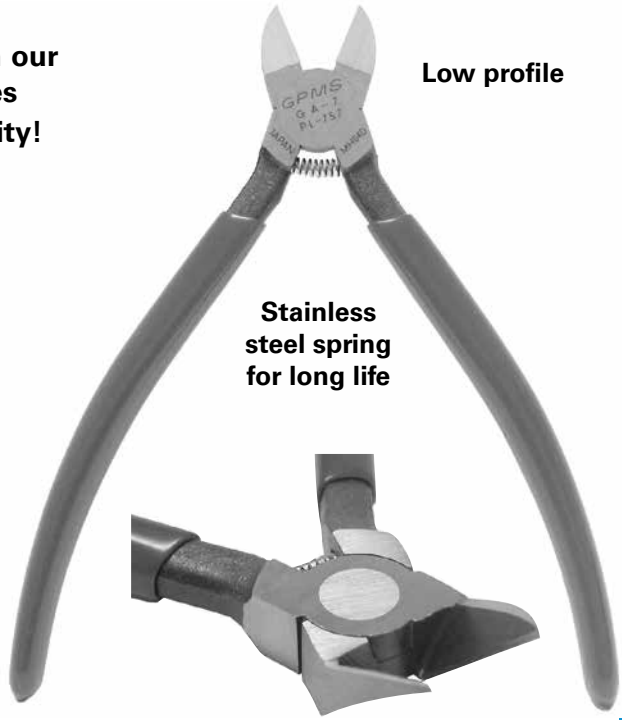
Low profile

Made from our own dies
Best quality!

Stainless steel spring for long life

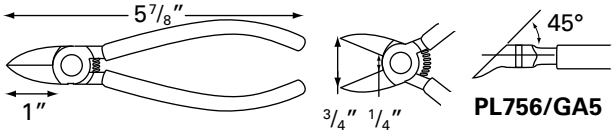
Low profile

Stainless steel spring for long life

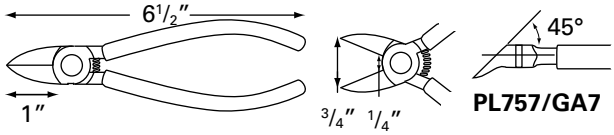


G

PREMIUM GATE CUTTERS



PL756/GA5



PL757/GA7

Premium Gatecutters

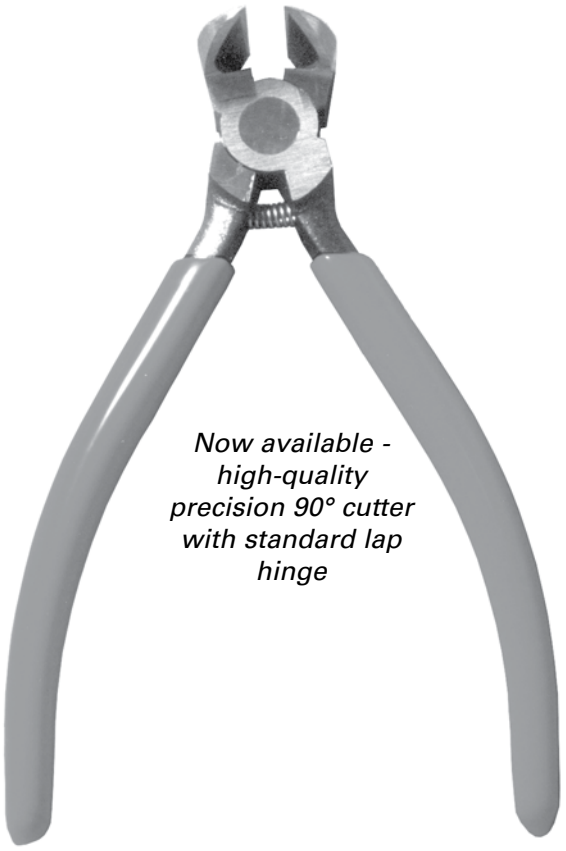
90° Angle Cutter

GLOBAL PLASTIC MOULDING SUPPLIES

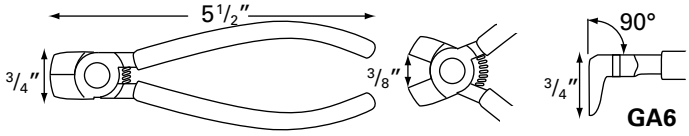
Angled Cutters - Ideal for recessed sprues

Part Number GA6
7½ Oz. Wgt.

PREMIUM GATE CUTTERS



Now available - high-quality precision 90° cutter with standard lap hinge



Premium Gatecutters

6″ Nipper Type Ergonomic Cutters

Left Hand
S6EL
Ref. Number PL736L

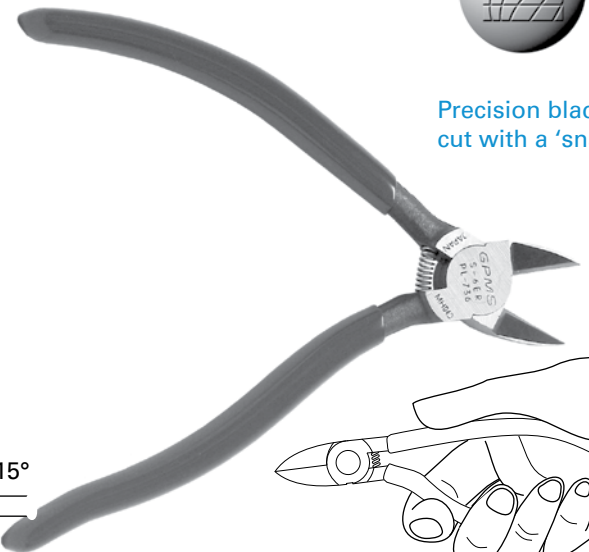
Right Hand
S6ER
Ref. Number PL736R

Special curved handle shape reduces stress on wrist - ideal for repetitive tasks

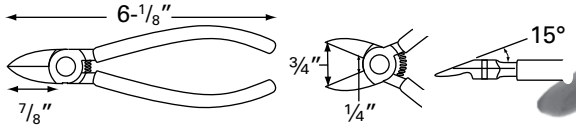
GLOBAL PLASTIC MOULDING SUPPLIES

Precision blades cut with a 'snap'

Slightly rounded back



Spare springs PSPG2



Wrist at correct working angle

Premium Gatecutters

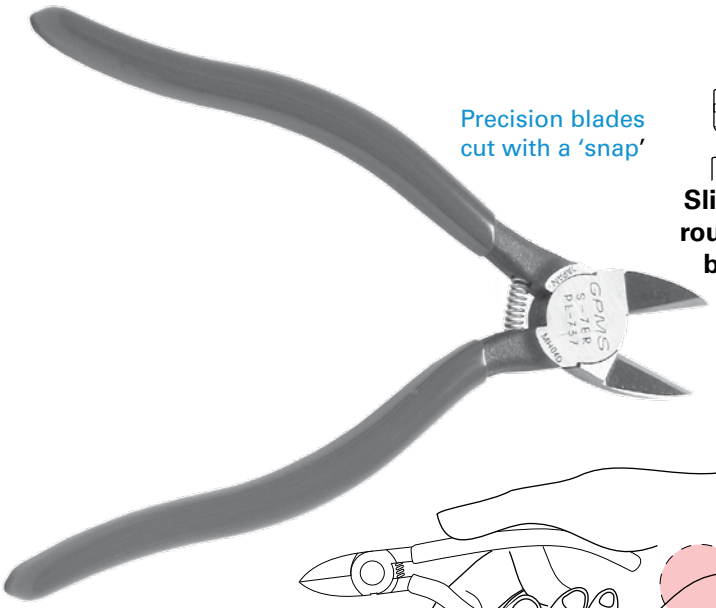
7" Nipper Type Ergonomic Cutters

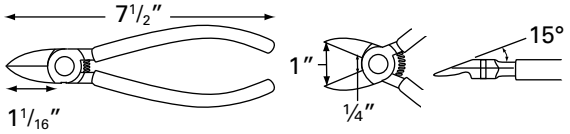
Left Hand
S7EL
Ref. Number PL737L

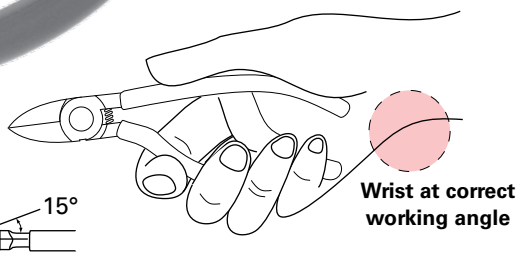
Right Hand
S7ER
Ref. Number PL737R

Spare springs PSPG2

PREMIUM GATE CUTTERS







Specialized Gatecutters

Convex, Concave

SPECIALIZED GATE CUTTERS

Mini Nippers

NM008

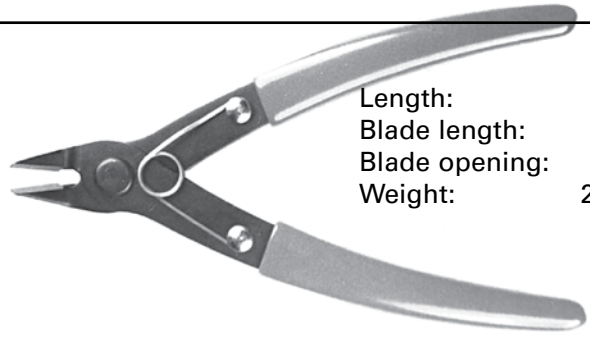
Spare springs PSPG6

Top Quality
Extremely sharp;
cuts with a "snap"; weighs just 2 oz.

Length:	5"
Blade length:	½"
Blade opening:	½"
Weight:	2 oz.

Budget Model
Extremely sharp - high carbon steel

NM009



Length:	5"
Blade length:	½"
Blade opening:	3/8"
Weight:	2 oz.

Specialized Gatecutters

End Cutters

Length	4½″	5¾″
Cutting Length	3 mm	3 mm
Weight	2.1 oz.	3.8 oz.
Opening at Tip	3/16″	7/16″
Opening at Base	NA	NA
Part Number	**24EF**	**25EF**

Two sizes available
4½″
5¾″

6″ Slightly Rounded Back

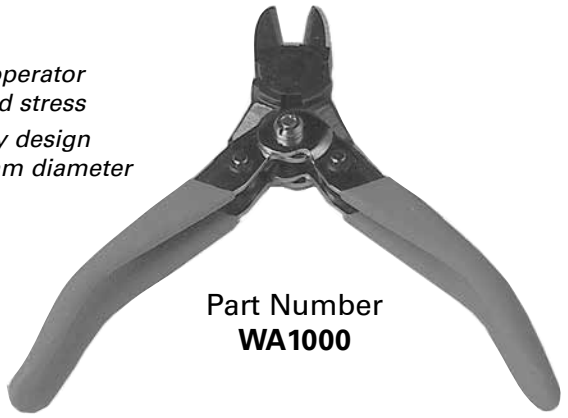
Blade length 11/16″

Overall length: ..... 6″
Blade length: ..... 11/16″
Cutting capacity ..... 5 mm
Opening at tip (max): ..... 3/8″
Opening at base (max): ..... 1/8″
Weight (oz) 5.5
Weight (g) 140

Force Multiplying

Reduces operator fatigue and stress

Heavy-duty design cuts up to 5 mm diameter



Part Number
WA1000

Mini Cutters

This cutter fits in the palm of your hand;
precise control and excellent for precision work

Part Number CN5-51

Part Number CNF51
Replacement blades only

Holsters

Single and Double Clip-on Gate Cutter Holsters

Clip-on Plier Sheath for gate cutters, knives, flashlights and more! Easily clips on top of pants. No belt required. Made of durable, lightweight, reinforced nylon. Made in USA.

7″ × 3″ Single Clip-on Holster - CO2
8″ × 3″ Double Clip-on Holster - CO4

Gate Cutter Holsters (with security flap)

7″ Universal Single Holder CO12 (not shown)
Double Plier Holder CO13

CO2 CO4 CO13

Lightweight and silent in operation *File*

Applications

- Cutting auto-panel, baffles and members, etc.
- Cutting urethane bumpers
- Cutting mufflers and pipes
- Processing installation holes for bumpers, fog lamps, speakers, etc.
- Cutting holes in steel plates and finishing
- Finishing wooden or plastic products
- Cutting holes in plaster board for power receptacles
- Finishing dies
- Chamfering parts after machining
- Deburring diecastings

AIR FILE SAW

Part Number	Length	Wt.	Grip Size	Stroke	Speed (strokes per min)	Air Consumption	Cutting Capacity*	Blade/Files Included
AF5	158 mm	380 g	29 x 29 mm	5 mm	3,500	200/min	500 mm	(2) R0536 (1) AFF50 (1) AFR50 (1) AFT50
AF10	201 mm	750 g	39 x 37 mm	10 mm	5,500	280/min	1000 mm	(2) AF1032 (1) R1032 (1) AFF50 (1) AFR50 (1) AFT50

**Cutting capacity is measured by cutting a 1 mm thick iron plate in one minute.*

Saw Blades - Replacement

Part Number	Teeth Per Inch	Shape
SR1036	36	
R1010	10	
W1014	14	
R0536	36	
AF1032	32	
R1032	32	

Files - Replacement

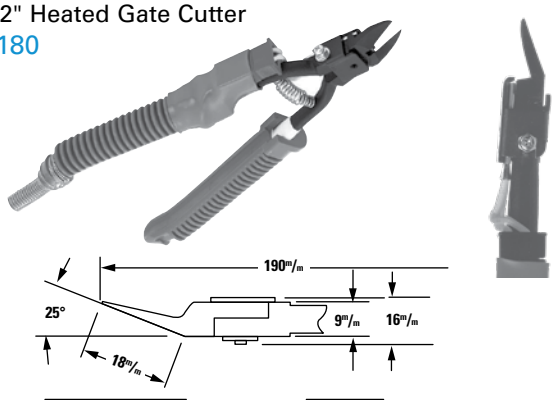
Part Number	Shape
AFF50	Flat
AFR50	Round
AFT50	Triangular

Heated Gate Cutters

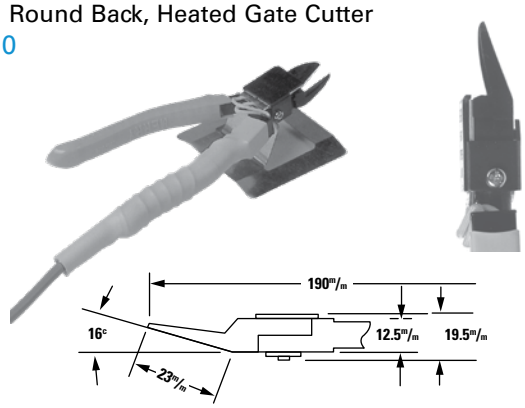
Handheld Series

HEATED GATE CUTTERS

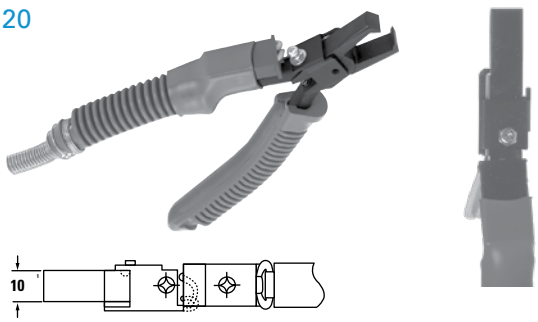
7-1/2" Heated Gate Cutter
HT180



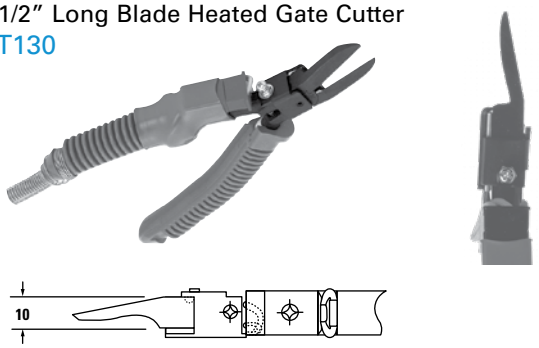
7-1/2" Round Back, Heated Gate Cutter
HT200



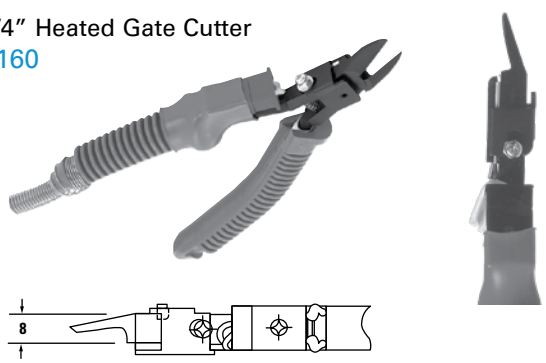
6" End Cutter Heated Gate Cutter
HT120



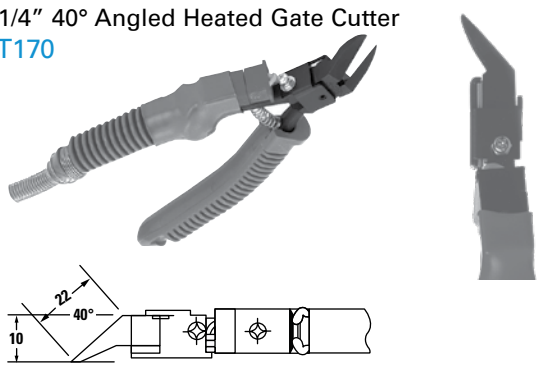
6-1/2" Long Blade Heated Gate Cutter
HT130



6-1/4" Heated Gate Cutter
HT160



6-1/4" 40° Angled Heated Gate Cutter
HT170



Specifications

Part No.	Cutting Capacity	Blade Type	OAL Inch	OAL mm	Blade Length	Weight oz	Weight g	Open @ Tip	Open @ Base	Max Blade Temp
HT180	4 mm	Rnd - 23°	7-½"	190	¾"	10.2	290	½"	3/16"	160° C
HT200	7 mm	Rnd - 20°	7-½"	190	⅞"	13	370	½"	3/16"	170° C
HT120	4 mm	End Cut	6-¼"	150	⅜"	9.5	270	5/16"	N/A	140° C
HT130	4 mm	Flat - 12°	6-½"	165	1-⅛"	9.5	270	7/16"	⅛"	140° C
HT160	4 mm	Rnd - 20°	6-⅜"	160	11/16"	9.0	255	5/16"	3/16"	160° C
HT170	4 mm	Flat - 40°	6-¼"	150	15/16"	9.5	270	⅜"	3/16"	140° C

Please note if heated nipppers are left connected to a transformer whose power is left on the blade tips will remain hot. The power will stay ON and the cutters will not turn OFF autimatically. Power to the cutters must be manually turned off in this instance.

ACCESSORIES

TRF25-100V

Controller for AH & HT Series Cutters

W19

19 Watt Heater for HT120 to HT180

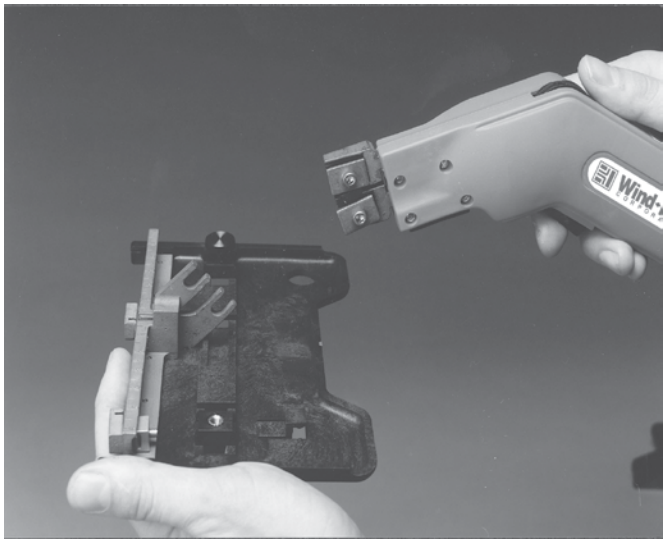
W29

29 Watt Heater for HT200

Quick Cut Hot Knife Kit

The groove sled attachment holds shaped blades up to 6″ wide and 3″ deep. A straight edge can be attached for perfectly straight cutting.

SLED6



Buy the kit and save!

- QC hot knife
- 6″ sled
- 4″ straight blade
- 2 pc.—12″ flat blades
- Pro GateMouth® Jr. canvas bag

QCKIT

Pneumatic Cutters

Handheld or Bracket Mounted

PNEUMATIC CUTTERS

MP35A
990 lbs. cutting power!
(Blade sold separately)

Length	12″
Weight	36 oz.
Diameter	2–3/16″
Cutting Pressure	990 lbs.
Air Pressure	72~87 PSI

Blade (for MP35A)
F9P*

MR30A
615 lbs. cutting power!
(Blade sold separately)

Length	9–3/4″
Weight	18 oz.
Diameter	2–1/8″
Cutting Pressure	615 lbs.
Air Pressure	72~87 PSI

Blade (for MP30A)
F9P*

MR10
130 lbs. cutting power!
(Blade sold separately)

Length	5–5/8″
Weight	7 oz.
Diameter	1–3/8″
Cutting Pressure	130 lbs.
Air Pressure	58~72 PSI

Blade (for MR10)
F3

MR3
130 lbs. cutting power!
(Blade sold separately)

Length	5″
Weight	3 oz.
Diameter	3/4″
Cutting Pressure	59 lbs.
Air Pressure	58~72 PSI

Blade (for MR3)
F10

Check out Page 662 for Mounting Brackets!

*Different sizes of blades available for these particular models! Check out page 664

All cutters have 1/4″ male NPT fittings.

Helicol-Combi® Tool Balancing

OBSOLETE

Applications:
Balancing and supplying portable pneumatic tools.

- On pre-assembly and assembly workstations
- On spot-welding and riveting stations
- On packaging lines: staplers, hoop binders, nailing heads

2 functions of balancing and supplying the compressed air in one single integrated vertically suspended apparatus.

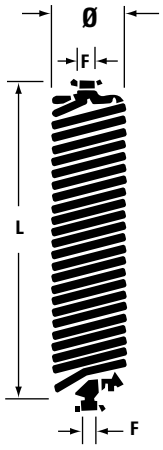
Fitted with a robust safety chain which prevents the spring from being strained, and a safe platform for suspension of larger air-driven tools.

Installation:

- Determine the attachment point for your balancing unit after having mounted the air-driven tool on the free end. To obtain the effective height
- Attach the balancing unit to a bracket; Helicol-Combi® can be attached in a number of ways: by direct thread, with quick-release connectors, flexible hose, or chain type suspension

Construction:

- Hose in special light-protected blue color Polyamid 12
- Model HEC 50 is fitted with the SL type safety chain



	For tools up to 4.5 lbs.	For tools from 4.5 to 11 lbs.
Tube ø	¼″	⅜″
L	10″	15″
Max. Extension	40″	70″
Thread F	¼″	⅜″
Coil ø	3-⅛″	4″
Part Numbers	**HEC2002**	**HEC5002**

G

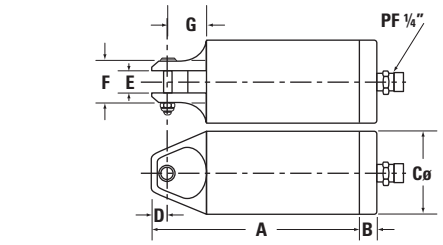
Fixture Mount Cutters

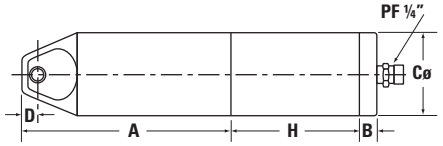
Non-Valved

FIXTURE MOUNT CUTTERS

MP25AM

Rounded Body Fixture Cutter
444 lbs. cutting power(without blade)





Blade (for both MP25AM & MP20M)
FD5

Note: See page 664 for different sizes of blades available for these cutters!

MR20M

Rounded Body Fixture Cutter
311 lbs. cutting power
(without blade)

	Dimensions (mm)								Body Diameter	OAL Inch	Weight oz	Max PSI	Cutting Power
	A	B	C	D	E	F	G	H					
MR20M	109	12	45	9	12	23	22	–	1–¾"	5–⅜	8.8	85	311 lbs.
MR25AM	109	12	45	0	12	23	22	87	1–¾"	9–5⁄16	16.3	85	444 lbs.

Mounting Brackets & Foot Valve

MOUNTING BRACKETS & FOOT VALVE

Type A
Mounting Bracket for MR-3 and MR-10 (dia. range = $1^{13}/16" \sim 1^{23}/32"$)

Type B
Mounting Bracket for MR-30A, MP25AM, MP20M (dia. range = $2^{7}/32" \sim 1^{29}/32"$)

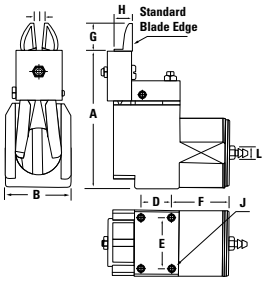
FB70S
Foot Valve with Guard
For all pneumatic cutters with two 1/4" NPT fittings

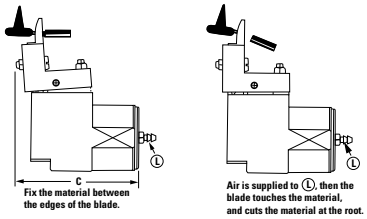
All bracket bases = 4" × 4" OAL=6"

Slide & Cut Power Units

"MG" Series

SLIDE & POWER CUT UNITS





MG20SPC
6mm cutting capacity;
308 lbs. cutting power!

(without blade)

Blade (for MG20SPC)
Part Number FG5

MG10SPC
4mm cutting capacity;
132 lbs. cutting power!

(without blade)

Blade (for MG10SPC)
Part Number FG3

MG3SPC
2mm cutting capacity;
110 lbs. cutting power!

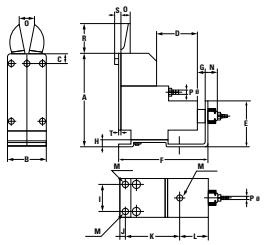
(without blade)

Blade (for MG3SPC)
Part Number FG10

Part Number	Dimensions (mm) A	B	C	D	E	F	G	H	I	J	L	Cutting Capacity	Weight (w/o Blade)	PSI Req'd	Air Consumption
MG3SPC	50	20	60	16	14	25	15	7	4	M3	ø4	2mm	2.8 oz.	70	1.3 cu. in./stroke
MG10SPC	73	35	73	20	27	29	17.5	9	7	M3	ø4	4mm	8.1 oz.	70	3.6 cu. in./stroke
MG20SPC	95	46	89	21	36	39	19	12	8	M4	ø4	6mm	14.8 oz.	85	5.5 cu. in./stroke

Slide & Cut Power Units

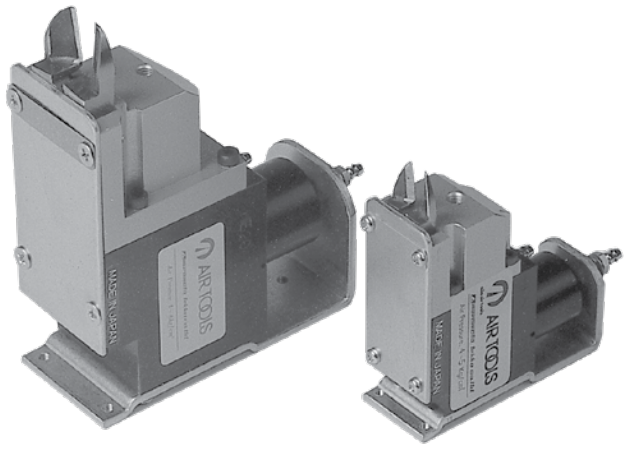
"ME" Series



ME20
4.5mm cutting capacity;
132 lbs. cutting power!

(without blade)

Blade (for ME20)
Part Number F5E



See following page for more details on replacement blades!

ME5
1.2mm cutting capacity;
66 lbs. cutting power!

(without blade)

Blade (for ME5)
Part Number F1E

ME10
2.5mm cutting capacity;
121 lbs. cutting power!

(without blade)

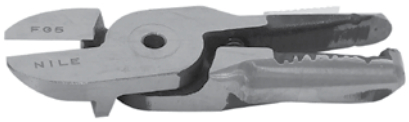
Blade (for ME10)
Part Number F3E

G

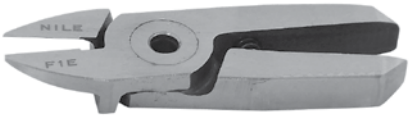
Part Number	Dimensions (mm) A	B	C	D	E	F	G	H	I	J	L	Cutting Capacity	Weight (w/o Blade)	Max. PSI	Air Consumption
ME5	75.2	29	31.2	77.2	22	5	50	22.2	M3	ø4	21	1.2mm	2.8 oz.	70 PSI	2.4 cu. in./stroke
ME10	97.2	35	42.2	88.2	26	5	50	33.2	M3	ø4	21	2.5mm	8.1 oz.	70 PSI	5.5 cu. in./stroke
ME20	111.2	44	48.2	103.2	34	5	85	13.2	M4	ø4	27	4.5mm	14.8 oz.	85 PSI	9.2 cu. in./stroke

Replacement Blades

Blade Number	Fits Cutters Number	Open @ Base	Open @ Tip	Blade Length	Blade Type
F10	MR3	0.0615″	0.1015″	0.5865″	Rounded
F3	MR10	0.1155″	0.1895″	0.5920″	Rounded
F3	MS10V	0.1190″	0.1995″	0.5920″	Rounded
F9P	MR30A	0.2950″	0.5790″	1.9430″	Rounded
F9P	MP35A	0.2690″	0.5505″	1.9430″	Rounded
F9P	MS30V	–	–	1.9430″	Rounded
FD9P	MR30A	0.3520″	0.5545″	1.7065″	Rounded
FD9P	MP35A	0.3410″	0.5515″	1.7065″	Rounded
FD9P	MS30V	–	–	1.7065″	Rounded
FG10	MG3	0.7400″	0.1500″	0.5885″	Flat
FG3	MG10	0.1585″	0.2955″	0.5570″	Flat
FG5	MG20	0.1980″	0.3650″	0.7960″	Flat
F1E	ME5	0.1170″	0.2295″	0.5370″	Flat
F3EA	ME10	0.15555″	0.2945″	0.5500″	Flat
F5E	ME20	0.1975″	0.3765″	0.7625″	Flat
F5	MR20M	0.2665″	0.4525″	0.8235″	Rounded
F5	MP25AM	0.2725″	0.4525″	0.8235″	Rounded
F5	MS20V	0.2455″	0.4090″	0.8235″	Rounded
FD5	MR20M	0.2780″	0.3910″	0.8870″	Rounded
FD5	MP25AM	0.2835″	0.4075″	0.8870″	Rounded
FD5	MS20V	0.2785″	0.3940″	0.8870″	Rounded

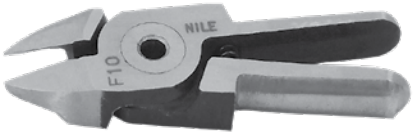


Part No. FG5



Part No. F1E

Part No. F3EA



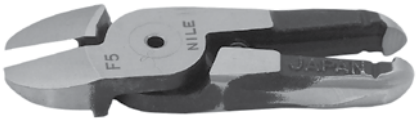
Part No. F10

Part No. FD9P

Part No. F5E

Part No. F3

Part No. FG10



Part No. F5

Part No. F9P

Part No. FG3

Part No. FD5

A

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Accessories, ... 635
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Automatic Sprayer 634
Air-O-Spray System 635

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Heavy-Duty Mold Release & Pin Lube 629
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Mold Shield 636
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Quick Rust Preventative 636
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Pipe Tape Sealant with PTFE 642
RTV Silicone 642
Boltlocker 643

Slide Products 623-625
Sprayer, Slide Freedom Sprayer Unit 634
Superglue 643

W

WD–40 621

Purging Compound

When you need more than just another purging compound.

Fresh Start Purging Solutions are a patented, revolutionary, all-purpose purging compounds which are intended to cover the needs of the plastic industry. The MC-2 and GP solutions are only two in a series of innovative and ground breaking purges designed for the removal of unwanted pigments, polymers and contaminates without leaving residue. Designed for quick color change and formulated for ease of use.

Safe, non-abrasive, non-hazardous purging solution developed around General Recognized As Safe (GRAS) ingredients under FDA 21 CFR.

MC-2™ - FRESH START PURGING SOLUTION™

MC-2 is a proprietary solution for mechanical purge applications where hybrid / chemical purges are not preferred.

- Designed for quick color changes
- Specifically formulated for cleaning manifolds, hot runners and other channels with tight clearance

PART NUMBER	DESCRIPTION
MC2A55	MC2-A PE BASED 55LBS - MECHANICAL
MC2A1320	MC2-A PE BASED 1320LBS - MECHANICAL

GP-HYBRID FRESH START PURGING SOLUTION™

GP Hybrid is a patented pending mechanical / chemical purging solution designed for cleaning out Engineering resins in difficult situations.

- Ideal for quick color changes overs, particular liquid pigment dispersions, dyes and engineered resins
- Not recommended for POM resins

**Note: Acetal materials are not compatible with Fresh Start Purging Solution GP-Hybrid™. Fresh Start Purging Solution MC-2™ is recommended for this purpose .*

PART NUMBER	DESCRIPTION
GPA55	GP-A PE BASED 55LBS - HYBRID CHEMICAL/MECHANICAL
GPA1320	GP-A PE BASED 1320LBS - HYBRID CHEMICAL/MECHANICAL

Applications:	Injection- cold and hot runners, blow molding Extrusion- profile, sheet, cast film, compounding, blow film
Temperature Range:	350° F- 625° F (177° C- 329° C)
Types of Resins:	All types
Minimum Clearance:	.010 inch or 254µm (microns)

Process		Grades	
		GP Hybrid	MC-2
Injection Molding	Hot Runner Systems	•	•
	Cold Runner/Conventional	•	•
Other Processes	Blow Molding	•	•
	Compounding	•	•
Extrusion	Blown Film	•	•
	Cast Film	•	•
	Sheet	•	•
	Profile	•	•
Processing Temp.	Low (°F)	350	350
	High (°F)	625	625
	Low (°C)	177	177
	High (°C)	329	329

General usage guidelines:
For initial use- Multiply machine tonnage by 8 and divide by 454 grams. For regular usage- Multiply machine tonnage by 6 and divide by 454 grams.

Purging Compound

COMPLETE PURGING THROUGH REACTIVE CHEMISTRY.
NO NEED FOR MULTIPLE PURGING PRODUCTS.
TEMPERATURE RANGE OF 160°–600°F.
READY TO USE - NO MIXING. FDA COMPLIANT.
USE WITH MOST RESINS. NOT FOR USE WITH ACETAL OR DELRIN.

45105	5 lb. Jug
4511300	1300 lb. Gaylord

NPT

The most effective new purging technology developed in decades, Slide NPT Nu Purge eliminates the need for multiple purging products since it effectively operates at temperature ranges from 160–600°F. It removes all traces of barrel residue in any plastics processing application in less time and for less cost.

Slide NPT Nu Purge solves the major problem of removing stubborn residue between color or resin changes. The most effective new purging technology developed in decades, Slide NPT Nu Purge consists of concentrated purge pellets that react chemically to heat, quickly and effectively cleaning machinery without extra soak time, excess downtime or lost productivity. The resulting purge is so effective that even resin deposits accumulated over long periods are often removed the first time Slide NPT Nu Purge is used.

Easy to use, Slide NPT Nu Purge requires no mixing or preparation time, shortening the clean-up cycle. Just pour the recommended amount directly into the throat of the machine. Slide NPT Nu Purge is so concentrated that less compound - up to one-half the amount of cracked acrylic - is needed for a complete purge. Slide NPT Nu Purge is non-hazardous, FDA compliant and free of harsh odors.

P.D.Q. Concentrate

Concentrated Liquid Purging Compound
Heat stable. Non-toxic. Non-corrosive. Non-flammable. Almost odorless. Use with carrier resin for the removal of all thermoplastics - resin to resin and color to color. Purge quickly, easily, safely and at a fraction of the cost of conventional purges - injection, extrusion or blow molding. Requires no soaking. No need to keep cracked acrylic purging resin inventory. Unique self-measuring bottle "meters out" just the right amount with little waste. Net 32 fl. oz.

Bottle
43432

PDQ

P.D.Q. Ready-To-Use Packets

Liquid Purging Compound
No mixing required. Non-flammable. Almost odorless. Purging doesn't get any easier than this. Just toss bag in hopper, that's all there is to it. P.D.Q. liquid purging
compound is the no soak, no mess, no waste, easy-to-store purge solution. P.D.Q. works in the carrier resin, saving time and money. Just one product works on all resin temperatures.

Box
43401

H

Purging Compound

800 ml bottle

Powerful Overall Cleaner

When changing your molding machine to run a different material and/or switching the color of the mixture, you need a purging compound that will not only remove all traces of the previous mix, including degraded material from the screw and barrel, but accomplish this with as little downtime as possible. CORATEX® Liquid Purging Compound cleans the entire plasticator, mixed with a minimum amount of plasticizing material.

It can be used immediately after the molding process to avoid costly delays in production. It will clean not only the pigments and plastic residue from the barrel and screw but, when used without a carrier, is also an excellent polishing medium for removing oxidation from metal. CORATEX® contains approximately 30% solvents so should not be used near food or food preparation equipment or be allowed to drain into ground water.

It is not water soluble, has a slight odor of ammonia and is barely, not explosively, flammable.

Coratex®
Part Number CPC1

CORATEX

Typical mixing ratios of Coratex® purging emulsion to pellets - example: when purging polyethylene, mix 1 part Coratex® with 100 parts pellets, by weight.

Mixing Ratio	
Material	Coratex: Pellets
ABS	1:50
Nylon	1:20
Polyethylene (HD & LD)	1:100
Polypropylene	1:50
PVC	1:30
Styrene	1:30

WD-40

Displaces Moisture. WD-40 is formulated for ultra-high surface attraction to metal. It completely covers surfaces, including microscopic irregularities, even in the presence of moisture. WD-40 is a non-conductor of electricity and quickly eliminates moisture-induced short circuits.

Penetrates. WD-40's ultra-high surface attraction results in a super-penetrating action that loosens rust-to-metal bonds and frees stuck, frozen or rusted metal parts.

Protects. WD-40 deposits corrosion-resistant ingredients over the entire surface area, including microscopic irregularities. This protective barrier shields against moisture and other corrosive elements.

Cleans. WD-40's ultra-high surface attraction enables it to get under dirt, grime, caked grease, and oil to clean the surface at the same time it forms a corrosion-resistant barrier.

Lubricates. WD-40's ultra-high surface attraction assures the lubricating ingredients in WD-40 will be widely dispersed and tenaciously held to all moving parts.

Smart Straw Aerosol

Protect, clean and lubricate thousands upon thousands of items - without ever losing the straw again! The new WD-40® Smart Straw Aerosol features a permanently attached straw
that sprays two ways. Flip it up for a precision stream and down for regular spray action.
This new design allows for one-handed application and puts an exciting new twist on this true American original.

Part Number	Description
WD40-12	12 oz. Smart Straw
WD40-1G	1 gallon can
WD40-5G	5 gallon can

WD-40

Compressed Air Sprayers

"The sensible alternative to aerosols"

- Ideal for our bulk mold sprays
- Uses compressed air as propellant
- No CFCs, Freon or disposal
- Completely reusable & refillable
- 5 models to suit your needs
- Choose your sprayer and spray and say goodbye to aerosols!

Part Number	Description	Empty Weight	Includes
SS1000	1 qt. (32 oz.) capacity painted steel; choose: red, green, black or white	2.5 lbs.	Multi-purpose 30 oz nozzle
SS8000PL	16 oz. capacity – aluminum	12 oz.	

COMPRESSED AIR SPRAYERS

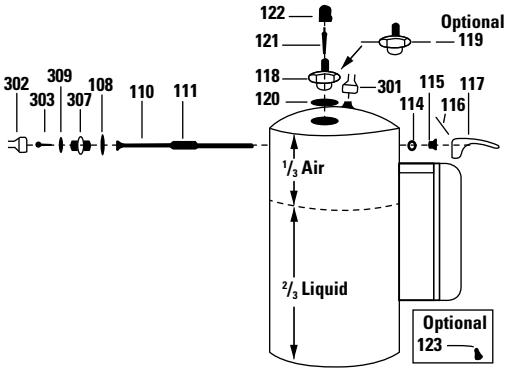
Spare Parts – Model 8000 & 8500

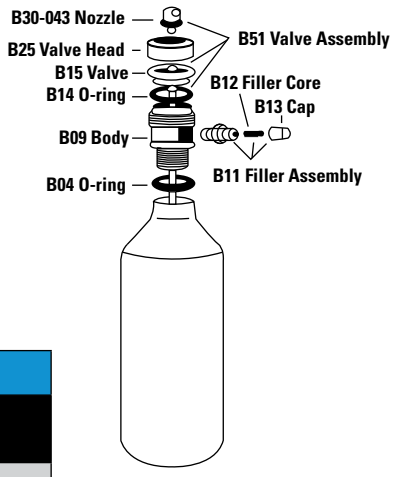
Part Number	Description
SSB05EP	E.P. O-ring (aluminum)
SSB05N	Neoprene O-ring (aluminum)
SSB10PL	Body (8000 & 8300)
SSB11	Filler assembly includes B12, B13
SSB14	O-ring - neoprene
SSB15	Valve – 6 pack
SSB25	Valve head
SSB45	Canister (8000) – 16 oz.
SSB51	Valve assembly

Spare Parts – Model SS1000

Part Number	Description
SS110	Valve assembly*
SS114	Stuffing packing
SS115	Stuffing nut
SS116	Cotter pin
SS117	Valve trigger
SS118	Filler cap
SS120	Filler gasket
SS121	Valve core
SS122	Valve cap
SS301	Pin stream – 20'
SS302	Spray jet -GP mist
SS309	Outer adapter washer
Repair Kits	
SS10	Full repair kit

* SS110 includes PTFE valve, valve spring and cotter pin.





Spare Nozzles – Model SS1000

Part Number	Description
SS301	Pin stream – 20' range
SS302B	Coarse mist
SS302C	Extra fine mist
SS602	Adjustable – fine-to-pin stream
SS305	Extra uniform – fine mist
SS707	Extra, extra fine mist

Spare Nozzles – 6 per pack

Part Number	Description
SSB30-035	Medium mist – tight pattern
SSB30-001	Pin stream with 6" Ex Tube

Fits models SS-8000, 8300, 8500 & 8800

The SLIDE® Guide to Productivity

The following pages feature the entire line of SLIDE® Mold Care Products!

All products are in stock for fast delivery!

Contract Pricing

DME Industrial Supplies offers contract pricing on all Slide products, DME can set up special pricing based on your usage. Simply fill out the following page with your monthly or annual usage of any mold spray and we will quote you a special price. This unique option allows you to receive up to last column pricing based on your long-term buying. Just another way to let you know, we appreciate your business!

Beware!

Compare Prices Ounce for Ounce!

It has come to our attention that some of our competitors may be offering a lower price per can but a higher price per ounce! Check the ounces per can before comparing prices. Many of their cans may have air space and less product. Slide gives you more ounces of better product at a lower cost per ounce!

Let DME "Custom Quote" Your Mold Spray Requirements with Slide Products.

DME Industrial Supplies Custom Quote Prepared for:

Name _____

Account Number _____

Company _____

Address _____

City _____ State _____ Zip _____

Phone _____ Ext. _____

Fax _____

Email _____

Prices are subject to change with 60 days notice by our suppliers. DME will honor all purchase orders that are in-house at the time of an increase. Any increase will be the result of a nationally announced price increase by our vendor.

Date _____

Quote Number _____

Prepared By _____

You are Presently Using:

Brand Name	Part Number	Number of Cases	Per Month	Per Year	Buy on a Blanket?

We Propose to Furnish the Following:

Brand Name	Part Number	Catalog Page

ELECTRONIC QUOTE REQUEST FORM

or visit www.dme.net/rfq

Accepted By

_____

Date _____

Slide makes the choosing easier

We know the right mold release, with the right formulation, is critical to your productivity. Slide Products helps you make it easier to choose.

Simply review the table below and pick the product with the characteristics that are critical to you, and also work well with the resin you are going to use.

Free samples make testing easier

Slide also knows the proof of effectiveness is right at the mold. So we offer free samples to test in your plant,
so you can try it before you buy it.

Once you choose the releases you feel are right for you, contact DME at 800-626-6653 to get your free samples or additional assistance in choosing the right release for you.

Indicates most recommended. ● ●

This release/resin recommendation table is intended to be a general guide based on field testing performed over the past six decades. Always pre-test any release with a particular resin. Mold configuration and condition can greatly affect part releaseability.

	Light Duty Mold Releases			Medium Duty Mold Releases			Heavy Duty Mold Releases			Water-Based Mold Releases		Speciality Mold Releases								Thermoset Releases			
	EconoMIST® 41612	Paintable 40012	LMR® 43512	Quick Silicone 44612	Quick Paintable 44712	Quick Lecithin 44812	Silicone 40112	Polycarbonate 41412	Universal 42612	E/S water-based silicone 44312	E/S water-based lecithin 44512	DFL Dry Film Lube 41112	Electronic 42712	Heavy-Duty Mold Release and Pin Lube 54912	Hi-Temp 1800 44110	Mold Saver 42510	Pure Eze 45712	Water Soluble 41212	Zinc Stearate 41012	DuraKote 41712	EpoxEase® 40614	Thermoset 45414	Urethane 45812H
Mold Release Characteristics																							
No chlorinated solvents	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Food-approved (silicone)	●			●			●			●													
Food-approved (non-silicone)			●			●			●		●			●			●						
Paintable		●	●		●	●		●	●		●	●	●	●	●	●	●	●	●		●	●	
Fast-acting solvent				●	●	●										●				●	●	●	
Will not interfere with bonding			●			●			●			●	●	●			●		●				
Ultrasonic welding compatible			●			●			●		●	●	●	●	●	●	●	●	●				
Recommended for medical molding									●								●						
Mold Release/Resin Recommendation																							
ABS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●				●
Acetal	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●				●
Acrylic	●	●					●	●	●			●	●	●			●	●					
Epoxy & Phenolic												●					●		●		●		
Noryl®	●			●			●		●			●		●			●	●	●				
Nylon	●	●	●	●	●	●	●	●	●			●		●			●	●	●				
Polycarbonate	●	●	●				●	●	●	●	●	●	●	●	●		●	●	●				●
Polyester												●					●	●	●		●		
Polyethylene			●			●			●					●			●		●				
Polypropylene			●			●			●			●		●			●	●	●				
Polystyrene	●	●	●				●	●	●	●	●	●	●	●	●		●	●	●				●
Polysulfone	●	●	●	●	●	●	●	●	●			●		●			●		●				
PVC									●					●		●	●						
Rubber	●	●	●				●	●	●			●		●			●		●			●	
Urethane									●			●		●			●			●			●
Wax	●						●										●				●		

Economy Mold Releases

Slide® – Try these Best Selling Mold Releases

ECONOMY MOLD RELEASES

Econo-Spray® 1 Silicon Mold Release Agent No. 40510

- Non-paintable silicone
- No chlorinated solvents
- Approved for food machinery*

Econo-	Per Case	(12 cans)
	40510	Case
	40510CAN	10oz can
	40555B	55 gallon

Econo-Spray 1 is a highly effective, economical, non-paintable silicone mold release. It provides an excellent release with all thermoplastics Maximum operating temperature: 600°F.

* Lubricants are suitable for food contact; use as indicated in Title 21 of the Code of Federal Regulations. The appropriate sections for release agents are 175.300, 177,1210 and 181.28. Federal Definitions and Standards of identity for Food CFR 121.101 (G.R.A.S.)

Econo-Spray® 2 Mold Release Agent No. 40710

Paintable; contains no chlorinated solvents

Econo-	Per Case	(12 cans)
	40710	Case
	40710CAN	10 oz. can

Econo-Spray 2 paintable release contains no chlorinated solvents. It permits post-decorating of molded parts without prior cleaning. Maximum operating temperature: 600°F.

Econo-Spray® 3 Mold Release Agent No. 40810

Paintable non-silicone contains no chlorinated solvents; food-approved*

Econo-Spray	Per Case	(12 cans)
	40810	Case
	40810CAN	10 oz. can
	40855B	55 gallon

Econo-Spray 3 contains a highly effective non-silicone release which is approved as a direct food additive.* No chlorinated solvents. This product is highly paintable, and will permit ultra-sonic welding of molded parts. It affords excellent release of all thermoplastics.
Pre-test all resins. Maximum operating temperature: 600°F.

*Lubricants are suitable for food contact as indicated in Title 21 of the Code of Federal Regulations. Federal Definitions and Standards of Identity for Food CFR 121.101 (G.R.A.S.)

LIGHT & MEDIUM MOLD RELEASES

Economist® 41612

Light-Duty Silicone Release

Approved for food machinery*. Non-staining and same high-quality ingredients as premium Silicone Release except formulated to be used for light-duty applications. Maximum operating temperature: 600˚F. Net wt. 11.5 oz. (16 fl. oz.)

Per Case	(12 cans)
41612	Case
41612CAN	11.5 oz. can
41635N	Cylinder

(equal to 4 doz. 11.5 oz. aerosol cans)

Quick Silicone 44612

Medium-Duty All-Temp Release

Fast-drying on cold and hot molds. No chlorinated solvents. No volatile organic chemicals. Imparts a smooth, dry, non-toxic film. Silicone is FDA-approved and USDA-approved for food machinery. Operating temps: 35˚F– 600˚F.

Per Case	(12 cans)
44612	Case
44612CAN	12 oz. can

Paintable 40012

Light-Duty Biodegradable Release

Paint over it. Plate over it. Hot-stamp over it. No spalling. No fish-eyes. Perfect finish! Ideal production line release. No special treatment of molding needed. Perfect finishes every time.
At least 25% more cycles per can over other comparable PAINTABLE releases. Maximum operating temperature: 650°F
Net wt. 11.5 oz. (16 fl. oz.)

Per Case	(12 cans)
40012	Case
40012NCAN	11.5 oz. can
40035N	Cylinder

(equal to 4 doz. 11.5 oz. aerosol cans)

Quick Paintable 44712

Medium-Duty All-Temp Release

Fast-drying on cold and hot molds. No chlorinated solvents. No VOC'S. Biodegradable. Imparts a smooth, dry non-toxic film. Use Paintable where parts will be painted or hot-stamped. Operating temps: 35˚F–650˚F
Net Wt. 12 oz. (12 fl. oz.)

Per Case	(12 cans)
44712	Case
44712CAN	12 oz. can

LMR® Lecithin 43512

Light-Duty Natural Release

A direct food additive† for most injection and compression molding and some flexible and semi-flexible urethane foams. Non-silicone, fully paintable non-crazing. Neutral color and odor. Will not interfere with part bonding, heat sealing, laminating, ultrasonic welding, post-decorating. No build-up on mold surfaces or drift. Minimal migration. Max. operating temp: 500°F.
Net wt. 11.5 oz. (16 fl. oz.)

Per Case	(12 cans)
43512	Case
43512NCAN	16 oz. can

Quick Lecithin 44812

Medium-Duty All-Temp Release

Fast-drying on cold and hot molds. No chlorinated solvents. No VOC'S. Biodegradable. Imparts a smooth, dry non-toxic film. Lecithin is food-approved and paintable. Operating temperatures: 35°F–500°F.
Net Wt. 12 oz. (12 fl. oz.)

Per Case	(12 cans)
44812	Case
44812CAN	12 oz. can

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*Federal Register of the F.D.A. Paragraph 173.300; also Paragraph 176.80. Federal Definitions and Standards of Identity for Food CFR 121.101 (G.R.A.S.)

Heavy Duty Mold Releases

Slide®

HEAVY DUTY MOLD RELEASES

Silicone 40112
Heavy-Duty Release
Faster molding. More production. Eliminates rejects. Heat stable. Nontoxic. Approved for food machinery*, Lubricates. Non-staining. High-quality, pure silicone oil provides more cycles per 12-ounce can. Save up to 40% in actual production. Very effective for all plastic molding operations, injection or compression. Maximum operating temp.: 600°F. Net wt. 12 oz.

Per Case	(12 cans)
40112	Case
40112NCAN	12 oz. can
40105B	5 gallon
40155B	55 gallon

(equal to 4 doz. 12 oz. aerosol cans)

Polycarbonate 41412
Heavy-Duty Paintable
No crazing or blemishing. Non-toxic. Odorless.
UL approved. Specially developed for polycarbonate resins; ideal where parts are to be painted, hot-stamped or metalized. Approved by the General Electric Co. for use on Lexan‡ resin. Maximum operating temperature: 650°F.
Net wt. 12 oz. (16 fl. oz.).

‡ trademark of General Electric Co.

Per Case	(12 cans)
41412	Case
41412NCAN	12 oz. can

Universal 42612
Heavy-Duty, Non-Silicone Paintable
Use where parts must be painted, hot stamped. Non-toxic. Odorless. Biodegradable. UL approved. Meets certain requirements for molding medical products; contact DME for details. Food-approved. Does not contain lecithins. Approved as a direct food additive. Use on all thermoplastics including sensitive plastics. Permits ultrasonic welding of plastic parts. Maximum operating temp. 600°F.
Net wt. 12 oz. (16 fl. oz.)

Per Case	(12 cans)
42612	Case
42612NCAN	12 oz. can
42605B	5 gallon
42655B	55 gallon

Water Based Mold Releases

Slide® — Environmentally Safe

E/S Environmentally Safe Mold Releases are

- Water-based with no known harmful ingredients
- Chlorine free
- Biodegradable
- Non-flammable
- More effective in most applications than other ODC-free releases, especially on molds 130˚F and above
- Available in silicone, (44312) and paintable lecithin formulations (44512)
- Max. oper. temp. 500˚/700˚F : net wt. 12 oz.

44312

44512

Per Case	(12 cans)
44312	Case
44312CAN	12 oz. can

Per Case	(12 cans)
44512	Case
44512NCAN	12 oz. can

*Federal Register of the F.D.A. Paragraph 173.300; also Paragraph 176.80. Federal Definitions and Standards of Identity for Food CFR 121.101 (G.R.A.S.)

SPECIALITY MOLD RELEASES

DFL® "Cold" (Fluorocarbon) 41112
For cold molds below 120°F. Excellent on all thermoplastics including polycarbonates. Lubricates conveyors, sliding panels, control cables, gaskets, pipe joints, couplings, locks, computer keyboards and more. Contains: Krytox* fast-drying formula. Excellent lubricant for injection molding. Recommended where clarity and deep draw are important, especially with hard, brittle resins. The dry film will not pick up dust or dirt. Lubricates in temperatures -50° to 500°F. Remains inert to most corrosive agents. Maximum operating temp. 500°F.
Net wt. 12 oz. (16 fl. oz.)

Per Case	(12 cans)
41112	Case
41112NCAN	12 oz. can
41105B	5 gallon
41155B	55 gallon

Electronic 42712
For Plastic Electronic Parts
Non-silicone. Fully paintable. Formulated specifically not to interfere with electronic properties of molded electronic parts. Maximum operating temperature: 550°F.
Net wt. 12 oz. (16 fl. oz.)

Per Case	(12 cans)
42712	Case
42712NCAN	12 oz. can

Heavy-Duty Mold Release and Pin Lube 54912
Non-silicone
Paintable
Food-approved
Dry release minimizes leaching out onto parts.
An ideal lubricant for the front half of ejector pins (pins in forward position). This almost dry lubricant minimizes the possibility of leaching out onto molded parts. Use in combination with application of Super Grease on back side of ejector pins. Stable at temperatures up to 400°F. Heavy-Duty Mold Release and Pin Lube can be used on plastics, rubber, waxes, glass-filled nylon and similar materials.
Net wt. 11.5 oz.

Per Case	(12 cans)
54912	Case
54912CAN	11.5 oz. can

HI-Temp 1800 44110
For Temperatures up to 1800˚F
Paintable. Non-silicone. Ideal for the latest high-temperature resins. It is also an excellent release for die casting of low melting point metals such as lead, zinc and aluminum. Maximum operating temperature: 1800˚F.
Net wt. 10 oz. (16 fl. oz.)

Per Case	(12 cans)
44110	Case
44110CAN	10 oz. can

Mold Saver 42510T
Neutralizes Corrosive Vapors
Non-silicone. Eliminates mold build-up. Prevents deposit build-up. Fully paintable. Neutralizes corrosive vapors emitted by flame-retardant plastics and PVC during molding.
It is imperative that Mold Saver be sprayed into the cavity regularly while molding to prevent mold deposits from forming and attacking the mold. Maximum operating temp. 550˚F.
Net wt. 10 oz. (Previous part no. 42519)

Per Case	(12 cans)
42510T	Case
42510TCAN	10 oz. can

*Federal Register of the F.D.A. Paragraph 173.300; also Paragraph 176.80. Federal Definitions and Standards of Identity for Food CFR 121.101 (G.R.A.S.)

Speciality Mold Releases

Slide®

SPECIALITY MOLD RELEASES

Pure Eze Mold Release

A paintable non-silicone release that is ideal for medical and food applications. Unlike vegetable-based releases, Pure Eze is based on a neutral white oil. It does not contain any lecithins, so it will not turn color or rancid over long periods of time. Pure Eze Mold Release is ideal for use with all thermoplastic resins, especially polyolefins including polyethylene and polypropylene. Also releases polycarbonates, rubbers & some epoxies.

- Paintable, non-silicone
- Idea for medical, food, electrical and optical molding
- UL approved
- Colorless, odorless and tasteless
- Meets USDA and FDA standards

Per Case	(12 cans)
45712	Case
45712NCAN	11.5 oz. can
45705B	5 gallon
45755B	55 gallon

Water Soluble 41212

Paintable Release

Permits ultrasonic welding of parts. Does not contain silicones. 100% paintable. No removal necessary. Does not contain water. Permits complete cleaning of molded parts with water. In most cases this release need not be removed prior to painting, hotstamping or plating. Anti-static properties reduce dirt pick-up on molded parts. Max. oper. temp.: 450˚F.
Net wt. 12 oz. (16 fl. oz.)

Per Case	(12 cans)
41212	Case
41212NCAN	12 oz. can

Zinc Stearate 41012

Lubricant Powder

For polypropylenes, polysulfones and rubber molding. Dry, light, water repellent powder. Economical to use and gives better finishes.
Results in fewer rejects and lower production costs. Maximum operating temperature: 600˚F.
Net wt. 12 oz. (16 fl. oz.)

Per Case	(12 cans)
41012	Case
41012CAN	12 oz. can
41025	25 lb. bag

Slide®

THERMOSTAT RELEASE

Dura Kote 41712
Semi-Permanent for Thermosets
Completely dry. Will not discolor. Extremely thin film. Urethane molding. Paintable epoxy molding. Excellent rotational mold release.
For thermoplastics and thermosetting resins.
A solvent dispersion of a special air-drying release resin that will not transfer into molded part.
Provides a dry, dust-free film on all hard-surfaced molds. Air dry for 10 min. For a more durable film, bake on for 15 minutes at 250°F using infrared heaters. Max. oper. temp: 600°F.
Net wt. 16 oz.

Per Case	(12 cans)
41712	Case
41712CAN	16 oz. can
41701B	1 gallon
41705B	5 gallon
41755B	55 gallon

Mold Releases

MOLD RELEASES

Slide®

Epoxease® Mold Release Agent No. 40614
Synthetic wax-based product. for injection molding, encapsulating, potting.
Non-silicone mold release agent for thermosets. For epoxy, polyester and phenolic molding. Formulated to prevent sticking caused by using all-purpose agents on epoxies.
Maximum operating temperature: 450°F.

Per Case	(12 cans)
40614	Case
40614CAN	10 oz. can
40601B	1 gallon
40605B	5 gallon
40655B	55 gallon

Thermoset Mold Release Agent No. 45414
Contains no silicones or oils. Thermoset Release is made with synthetic carnauba wax, the most effective formulation for molded thermoset plastics, rubber and similar materials.
It stops parts from sticking, maximizing productivity. It is ideal for injection, compression and transfer molding. Maximum operating temperature 600F.

Per Case	(12 cans)
45414	Case
45414CAN	14 oz. can

Specialty Mold Releases

Slide® – Urethane Mold Release

- Developed especially for polyurethane resins
- Can be used with rigid, semi-rigid and flexible foam urethanes
- No Class I or II ozone-depleting chemicals
- No chlorinated solvents and is safe for all urethanes
- Will not build up on the mold and is non-marking for the parts
- Contains a non-paintable silicone

Per Case	(12 cans)
45812H	Case
45812NCAN	11.5 oz. can

SPECIALITY MOLD RELEASE

Lubricants

Slide®

LUBRICANTS

All products on these pages are 100% ODC Free!

Silicone Spray Lube 42112
All-around lubricant. Use on windows, locks, hinges, zippers, household appliances, sporting goods, fabrics (incl. synthetics), metal runners, cutting edges, sewing needles, cameras and more. Especially recommended for sliding wood surfaces. Polishes all plastics, stainless steel and aluminum. Removes water spots. Approved as indirect food additive. *Operating temperature: -100˚F to 600˚F.
Net wt 12 oz. (16 fl. oz.)

Per Case	(12 cans)
42112	Case
42112NCAN	12 oz. can

Heavy-Duty Mold Release and Pin Lube 54912
Non-silicone
Paintable
Food-approved
Dry release minimizes leaching out onto parts.
An ideal lubricant for the front half of ejector pins (pins in forward position). This almost dry lubricant minimizes the possibility of leaching out onto molded parts. Use in combination with application of Super Grease on back side of ejector pins. Stable at temperatures up to 400°F. Heavy-Duty Mold Release and Pin Lube can be used on plastics, rubber, waxes, glass-filled nylon and similar materials.
Net wt. 11.5 oz.

Per Case	(12 cans)
54912	Case
54912CAN	11.5 oz. can

TAP-IT® 40412
Reduces tap breakage. Produces cleaner threads. For reaming, dressing abrasive wheels, etc.
For aluminum, titanium, stellate, magnesium alloys, chromes, moly, beryllium copper and stainless steel.
Net wt. 12 oz.

40401B	1 gallon
40405B	5 gallon
40455B	55 gallon

Cutting Oil 41314
With high pressure additives.
For drilling, cutting, sawing & tapping. Pressurized spray forces cutting oil into hard-to-lubricate areas. Contents 100% usable.
Net wt. 14 oz.

41301B	1 gallon
41305B	5 gallon
41355B	55 gallon

Slide® Super Grease

Super Grease 43911

Wide Temperature Range Grease
Colorless. Odorless. Non-toxic. FDA dielectric. Contains PTFE. Will not freeze, melt or gum up. Compatible with other lubricants. No silicones. Will not wash out. USDA-listed H1. Repels water. Will not separate, run or fall out. Thixotropic properties provide excellent mechanical stability when sudden temperature changes occur. Exceptional load-bearing properties. Clear, clean, non-yellowing grease. For injection molds and mold assemblies, especially medical and food-grade plastic parts. Prevents corrosion. Oper. temps: –65˚ to +650˚F Net wt. 11 oz.

Per Case	(12 cans)
43911	Case
43911CAN	11 oz. can

SUPER GREASE

Super Grease now comes in a 14 oz. and 3 oz. tube as well as the original 11 oz. aerosol can!

43900-01	10 gram tube
43900-03	3 oz. tube
43900T	14 oz. tube
43900-7	7 lb. tube
43900-35	35 lb. bucket
43900-400	400 lb. drum

H

Freedom Sprayer Unit

- Just plug and spray
- Easy to use, no hard wiring required
- Save money and save time
- Operate more productively
- Works with aerosol cylinder or pressure pot

The new Freedom automatic spray unit is easy to program and works autonomously from all your equipment. You just plug it in and spray.

A proximity sensor placed near the mold cavity detects when the mold opens and signals the unit to deliver release. Nozzles can be attached with brackets (included) or optional magnetic mounting blocks. Position them anywhere to spray release to any point, such as trouble spots in the cavity, the entire face of the mold, both mold cavities, or even to create a “cloud” of release between the cavities.

The extremely compact control unit has protective rubber feet so it can sit on any flat surface, or mount directly to the machine. And it can be plugged directly into any 110V, 15 AMP circuit.

The Freedom Sprayer Unit comes complete with easy-to-program control unit, 10-ft spray hose and two nozzles, 6-ft. cord and proximity sensor, 5-ft. tank hose, and 10-ft. power cord. Aerosol spray cylinder or pressure pot additional.

Experience the true Freedom of hands-free automatic spraying with the new Freedom Sprayer Unit.

Part Number	Description
43200	Freedom Automatic Spray Unit with Aerosol Cylinder (for use with Slide aerosol cylinders)
43200M	Freedom Unit spray head magnet (optional)

ACCESSORIES

“Valve-Up”

Giant Aerosol Cylinder

This money-saving aerosol is a versatile spraying unit for use with automated or robotic equipment.* Each 'one-way' disposable**cylinder equals 4 dozen aerosol cans 100% useable. Offered in many SLIDE products.

*Not installed by Slide Products, Inc.
**Non-refillable by federal regulation

*Federal Register of the F.D.A. paragraph 173.300; and paragraph 176.80. Federal Definitions and Standards of Identity for Food CFR 121.101 (G.R.A.S.)

ACCESSORIES

Aerosol Can Holder

(holds 3 cans)

The Slide Spray Can Holder helps organize space and keeps cans in place. Extruded from PVC, these extremely durable can holders can easily be bolted directly onto the side of a molding machine or tool cart to hold various Slide cans.

Part Number	Description
43800	Aersol can holder (holds 3 cans)

Air-O-Spray System for Compressed Air Slide Spray 12oz. Applicator

This easy-to-handle unit is specially designed for use with Slide bulk products. It operates entirely on the atomizing principle. Air-O-Spray has combined internal and external action in which mold releases, lubricants, cleaner, etc. can be atomizing at low pressure and low mist.

Any air compressor providing 50 PSI us ideal for this unit.

12oz. Slide Spray Applicator

Part Number	Description
42202	Handheld Sprayer w/ hose (includes 10' braided metal hose with 1/4" pipe-threaded fitting, and 12oz plastic bottle)

Pump Sprayer & Bottle

Package of 2 units per box. Plastic bottle and sprayer to be used with Slide bulk products.

Part Number	Description
42300	Pump sprayer & bottle (package of 2)

H

Rust Preventatives

Slide®

RUST PREVENTATIVES

Mold Shield® 42910

Dry Rust Preventive

- No chlorinated solvents
- New Ultra-Dry formula
- Non-penetrating
- Will not bleed out and mark parts
- Neutralizes fingerprints
- Non-silicone/ non-wax
- Self-cleaning in start-up
- Seals out condensation

A unique rust preventive formulation. Designed, through a special ultra-dry spray package, to deliver a dry mist spray which will not penetrate into moving mold parts, including ejector pin holes, slides, cams, etc. This special feature prevents marking of plastic parts when molds are put back in service, where normally a conventional rust preventive may leach out of mold crevices and mark parts, resulting in lost production time and rejected parts. Protects up to two years under normal conditions.

Per Case	(12 cans)
42910	Case
42910CAN	10 oz. can
42905HB	5 gallon
42955B	55 gallon

Penetrant Plus® 41812

Short Term Rust Preventive

Choice of spray or stream. Dust free. Non-staining. Harmless to most plastics, rubber, paint, etc. Cleans and dries out electrical equipment. Mono-molecular penetrating film frees rust-froze parts. Lifts and replaces moisture with protective film. Lubricates without affecting performance of electrical equipment. Non-conductive because it has high dielectric strength and lubricates delicate electronic equipment. Protects up to six months under normal conditions. Net wt. 12 oz. Conforms to MIL-C 23411.

Per Case	(12 cans)
41812	Case
41812CAN	12 oz. can
41801B	1 gallon
41805B	5 gallon
41855B	55 gallon

Quick Rust Preventive 42810R

(Quick RP) with Red Indicator Dye

No chlorinated solvents
Red indicator dye shows where rust preventive is applied.
Dry formula makes oils stay where they are sprayed
Fast cleanup.
2 years protection.

Slide Quick RP employs a combination of fast evaporating solvents and oils to set up quickly on your mold surfaces, providing immediate protection against moisture and light acids. This unique ""dry"" package makes
cleanup quick and easy when the mold is put back into production, saving time and money.

Per Case	(12 cans)
42810R	Case
42810RCAN	10 oz. can
42805B	5 gallon
42855B	55 gallon

RUST PREVENTATIVES

Acid Vapor Neutralizer
44011 Protection when Molding PVC and Flame-Retardant Resins The one-step rust preventive formulated to protect plastics molding dies while in storage from corrosive attack by hydrochloric and hydroboric acids, plus protects molds from most common corrosive damage that is found in the atmosphere. Protects against fingerprint acid. Acid vapors produced during molding will be neutralized when they come in contact with Acid Vapor Neutralizer. Length of protection is dependent on amount of PVC and F/R being molded.

Per Case	(12 cans)
44011	Case
44011CAN	11 oz. can
44005B	5 gallon
44055B	55 gallon

No-RUST® 40212
Long-Term Rust Preventive
Non-silicone. Neutralizes fingerprint acids.
Self-cleaning. The one-step rust preventive that contains both neutralizer and rust preventive. Ideal for plastics mold protection. Guarantees positive protection by displacing moisture from metal surfaces. Adheres tightly. Accurate spray pattern concentrates protection in normally inaccessible crevices. Protects up to five years under normal conditions. Net wt. 12 oz. (12 fl. oz.).
Conforms to MIL-C-23411.

Per Case	(12 cans)
40212	Case
40212CAN	12 oz. can
40201B	1 gallon
40205B	5 gallon
40255B	55 gallon

White Rhino NSF-H1 Registered Rust Preventive 46710
Slide White Rhino Rust Preventive wraps your mold base in a tough, protective second skin. Comprised of food-approved active ingredients, it's ideal for plastics processing applications. Fast-drying formulation sets up quickly to protect immediately against moisture and light acids. Self-cleaning in startup.

Features and Benefits
- No chlorinated solvents
- 2-year protection
- Contains food-approved ingredients
- Dry formulation
- Self-cleaning and self healing
- Neutralizes fingerprint acids

Per Case	(12 cans)
46710	Case
46710CAN	10 oz. can
46705B	5 gallon
46755B	55 gallon

H

Mold Cleaners

Slide®

MOLD CLEANERS

NFC Mold Cleaner 47112

NFC Mold Cleaner is a powerful, non-flammable (no flashpoint) metal cleaner that contains no chlorinated solvents. It thoroughly removes greases, silicones and other contaminants, and is an excellent solder flux remover. Net wt. 12 oz.

Features and Benefits

- Non-flammable
- No chlorinated solvents
- Excellent solder flux remover
- Not listed as a hazardous air pollutant (HAP)

Per Case	(12 cans)
47112	Case
47112CAN	12 oz. can
47101B	1 gallon
47105B	5 gallon
47155B	55 gallon

Resin Remover 41914

- Removes resin buildup from polyacetals, urethanes and flame-retardant mold deposits
- No chlorinated solvents
- Removes most color deposits

Compounded with powerful solvents to remove resin buildup on molds. This buildup can be stripped without removal of mold (injection or transfer). Will remove, strip and/or aid in the removal of many resinous plastics. Mold off deposits with mold temperature above 180°F. Discard next 3 to 4 shots. For flame-retardant resins; apply Slide mold release before attempting this procedure.

Per Case	(12 cans)
41914	Case
41914CAN	14 oz. can
41901B	1 gallon
41905B	5 gallon
41955B	55 gallon

Quick Mold Cleaner 40910

Slide Quick Mold Cleaner is the no wipe, no CFC, non-chlorinated cleaning machine. Get every nook. Every cranny. Get your mold completely clean - without wiping - with new Quick Mold Cleaner. Its powerful cleaning agents easily remove silicones, grease, oil and wax buildup on mold surfaces, etc. It leaves no residue. And its fast-evaporating formulation helps maximize the productivity of your operation.

Per Case	(12 cans)
40910	Case
40910CAN	10 oz. can
40905B	5 gallon
40955B	55 gallon

Mold Cleaner Plus Degreaser 4 No. 46910

- No chlorinated solvents
- Evaporates fast
- Leaves no residue

Slide Mold Cleaner Plus Degreaser 4 contains no chlorinated solvents and provides a convenient method for removal of silicones, grease, oil and wax buildup on mold surfaces, etc. without the need for wiping. Ideal for cold molds, it leaves no residue so it cleans without wiping. It has a fast evaporating formulation, is non-conductive and non-abrasive.

Per Case	(12 cans)
46910	Case
46910CAN	10 oz. can
46905B	5 gallon
46955B	55 gallon
46930	Cylinder

MOLD CLEANERS

On/Cycle 44212
At-The-Press Warm Mold Cleaner
No chlorinated solvents. Will not stain aluminum. Multi-purpose cleaning as well as equipment cleaning. No caustic or acidic compounds. Use on ordinary soil and most painted surfaces. The ideal mold cleaner while in production. Works on warm molds up to 150°F. Easily removes releases, oils, greases and many resinous buildups before they can become a problem. Made from citrus oils which destroy odors and also give it a pleasant orange scent
Net wt. 12 oz. (16 fl. oz.)

Per Case	(12 cans)
44212	Case
44212CAN	12 oz. can
44201B	1 gallon
44205B	5 gallon
44255B	55 gallon

Econo-Spray Mold Cleaner 45612
Approved for Indirect Food Contact*
Food approved. No chlorinated chemical.
Very low odor. Mold cleaner quickly removes silicones, grease, oil and wax buildup on mold surfaces. It is also good for cleanup of non-operating electrical equipment and general decreasing on machine solvent-sensitive plastics. Net wt. 12 oz.
* FDA regulation 21 CFR 172.882, 172.884, 178.3530, 178.3650; 40 CFR 180.1001 (c) & (e)

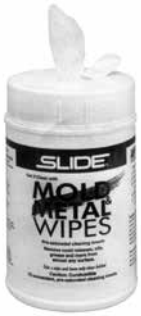
Per Case	(12 cans)
45612	Case
45612NCAN	12 oz. can
45601B	1 gallon
45605B	5 gallon
45655B	55 gallon

Veri-Kleen 42012 Contact & Metal Cleaner
Will not harm rubber, paint etc. Excellent contact cleaner and flux remover. Ideal for circuit boards, tape heads, motors and a variety of metal cleaning applications.
Non-conductive and non-flammable. It has a very mild odor. Can be used safely on operating electrical equipment, leaving no residue after evaporating.
Net wt. 12 oz.

Per Case	(12 cans)
42102CAN	12 oz. can

Silicone Remover 43016
Concentrate for Use with Water
Completely removes all traces of silicone.
A specially formulated wetting agent to be mixed with water to remove silicone from molded plastic parts through repeated washing or by the use of an ultra-sonic cleaning bath. It is designed to replace organic solvents that are harmful to certain plastics, such as polycarbonates, styrenes and acrylics.
Net wt. 16 fl. oz.

Per Case	(12 cans)
43016CAN	16 oz. can



Mold & Metal Wipes 46370
Presaturated Cleaning Towels
Fast, convenient, presaturated sheets quickly clean almost any surface.* Use for preparing molds for production or storage; touch-up cleaning during production; surface prep prior to secondary operations; and general maintenance and all-purpose cleaning. Using wipes reduces solvent consumption and VOC's emissions. Canister of 70 wipes.
*Pre-test on non-metal surfaces.

Per Canister	70 wipes
46370	Canister

Per Box	(50 single wipes)
46301	Box

Cleaners

Slide®

Mold & Metal Polish

Clean and restore surfaces, easily wipes on and off. Removes plate-out, oxidation and stains. Leaves no residue, brings surfaces to a high luster. Safely removes plate-out, oxidation and stains on fine tooling surfaces quickly and cost-effectively. Ideal for all types of molds, dies and fixtures, it restores surface finish, while providing a high, luster sheen. The polish has proven effective on steel, stainless, aluminum, brass, bronze, beryllium, kirksite, zinc, powdered metals and other materials used in injection, blow, extrusion, compression, and rim molding.

45210	10 oz. Can	**45202**	1.76 oz Tube

PC Polish Cleaner 43310 Old Yellow

Removes stains and mold deposits. Conditions your mold for faster startups and improved release properties. Protects as it cleans. Does not contain diamond dust. Particle size <5 microns. Handy plastic squeeze bottle. Use on all metal molds for removal of stains and discoloration. Can be used on cold or warm injection molds. Leaves a non-transferring, micron-thin film that reduces mold wear. Reduces the need for all types of internal and external release agents. Net 10 fl. oz.

43310	10 fl. oz. bottle

Citra-Cling 46515

This mold and metal cleaning product is formulated with a natural orange citrus solvent (d'limonene) that cleans most surfaces. Slide formulated this product to dispense with a foaming action that has tremendous clinging ability. This feature allows for the product to hang on vertical surfaces, maximizing the cleaning time for the product. Simply spray this foaming product on and wipe clean. It contains no chlorinated solvents, petroleum distillates or glycol ethers. The product is 99% biodegradable, non-toxic and can be used on painted surfaces. Excellent for removing mold release, dirt, oil and greases from most any surface. Net wt. 15 oz.

Per Case	(12 cans)
46515	Case
46515CAN	16 oz. can

Nexgen Metal & Mold Cleaner 46410

Direct alternative to trichloroethylene and methylene chloride. Food approved(GRAS). Leaves no oily residue. No global warming compounds. Not a hazardous air pollutant (Not HAP). Non-corrosive and not SARA reportable. Biodegradable and rinses with water. Meets tough health, safety and environmental regulations. High solvency for resins, polymers and dies. Nexgen is the most extraordinary cleaning product available. Formulated purely from citrus and vegetable products, it is much more than you might have experienced with previous "natural" cleaners. It meets or exceeds the toughest health and safety issues, without sacrificing RAW CLEANING POWER. Biodegradable, it easily rinses away with water and leaves no residue. Use it for general cleaning and wiping, oil spill clean-up, ink, tar and adhesive removal, paint and graffiti removal, removing silicone and lithium grease, and degreasing. Net wt. 10 oz.

Per Case	(12 cans)
46410	Case
46410CAN	10 oz. can
46401B	1 gallon
46405B	5 gallon
46455B	55 gallon

Plastic Cleaner with Foamaction™ 41515

Slide Plastic Cleaner uses FOAMACTION™ foaming spray to effectively remove oil and dirt marks from all plastics, even sensitive polycarbonates. Just spray and wipe clean, then polish with a clean, dry cloth. Plastic Cleaner is ideal for cleaning plastic parts and helps remove mold releases prior to secondary operations. Plastic Cleaner also works as a general purpose cleaner. Operating temps: 35°F – 650°F. Net wt. 15 oz.

Per Case	(12 cans)
41515	Case
41515CAN	15 oz. can

Metal Polish

BLUE MAGIC™ Professional Quality Metal Polish Cream - Unique Formula. BLUE MAGIC™ is the most effective and versatile cleaner, polish and protectant you can use. BLUE MAGIC™ is renowned for its performance on a wide variety of metal, including precious metals. Chemically Deep Cleans the surface to remove tarnish, oxidation and other dulling agents. Easy to use. Satisfaction guaranteed!

Ideal for Use on:

- Chrome
- Aluminum
- Magnesium
- Gold
- Silver
- Copper
- Brass
- Stainless Steel
- Bronze
- Pewter
- Plexiglass
- Fiberglass

Part Number	Container Size
MP100-12	100 gram tube (3.53 oz.)
MP500-12	500 gram plastic jar (19.38 oz.)

Silicone Compound

- Similar to Dow Corning 111
- Operating range: –40°F to +500°F
- Corrosion protectorant/release agent
- Prevents drying and cracking of rubber components
- Excellent wash-away resistance
- Chemically inactive – non-solidifying
- Right from the tube or thin with mineral spirits
- Won't carbonize or harden

Part Number	Size
SG151	5.3 oz. tube

Lithium Grease

White Lithium Grease

- Extra-duty white lube that protects against rust and corrosion
- Use for with mold cams, pins, bushings and all mold components
- Makes contact surfaces friction free, use from -40°F to +500°F
- Excellent for metal-to-metal contact, nontoxic, nonflammable, will not stain
- Resists moisture & high heat; will not separate under load

Part Number	Container Size
49596	16 oz. aerosol
49594	1.5 oz. tube
49595	16 oz. tub

LITHIUM GREASE

Copper & Nickel Anti-Seize

High Temperature Anti-Seize & Lubricating Compounds

- Choose copper or nickel base; rated to 2000°F
- Eliminates galling & seizing
- Suggested for nozzles, screw tips, cylinder bolts, mold clamps, etc.

ANTI-SEIZE

Part Number	Compound Type	Container Size & Type	Max. Temp. Rating (˚F)
ASC4	Aluminum Anti-Seize w/ Copper Flake	4 oz/brush-top	2000°
ASC8	Aluminum Anti-Seize w/ Copper Flake	8 oz/brush-top	2000°
CAS8	Pure Copper	8 oz/brush-top	2000°
ASN8	Pure Nickel	8 oz/brush-top	2000°
ASC16	Aluminum Anti-Seize w/ Copper Flake	16 oz/brush-top	2000°

*Meets MIL-90; contains no moly-disulfide. Copper/Aluminum also available in 42 lb. pails.

TPFE Paste

Heavy-Duty Sealant and Lubricant

- Brushable paste dries slowly; non-hardening
- Withstands up to 3000 PSI on gases at temps from –50°F to +500°F
- Use on water, steam, natural and LP gas, oils, fuels, dilute acids
- Apply to metals, PVC, CPVC, ABS, polypropylene and nylon
- Heavy duty, UPC listed

Part Number	Description
23030	4 oz. brush-top bottle
23045	8 oz. brush-top bottle
23060	1 pint brush-top bottle
23075	1 quart brush-top plastic can

TPFE PASTE

Tape Thread Sealant

- Permanent non-flammable seal
- Remains plastic permanently
- Operation temps –450°F to +500°F
- For water connections, hydraulics, air, gas & petroleum

Part Number	Length	Thickness	Width
TT100	260″(21.6′)	0.0035	½″
TT200	520″(43.3′)	0.0035	½″
TT300	520″(43.3′)	0.0035	¾″

TAPE THREAD SEALANT

Pipe Thread Sealant with PTFE

- Resists corrosion, leakage and loosening from vibration and moisture
- Anaerobic sealant chemically cures in the absence of air
- Use from –65°F to +350°F

Part Number	Container Size
49486	50 ml tube
49495	16 oz. brush-top

PIPE THREAD SEALANT

- Allows final adjustments up to 24 hours after application
- Use for hydraulics, pneumatics, process piping or steam
- Locks and seals threaded fittings
- Easy disassembly without damage to threads
- Won't shrink away from fitting

RTV Silicone

RTV Silicone Adhesive Sealant

- Bonds most plastics many assemblies uses
- Cures at room temperature to a tough flexible rubber
- Resists shrinkage
- Perfect for caulking, sealing, waterproofing & bonding
- Bonds & seals terminals, connectors, mounting fixtures, mechanical gaskets, glass, metal, masonry, plastic, tile, rubber, wood & fabric

Operational temp.(RTV Silicone): –60°F to +450°F
Max temp.(Silicone Gasket Makers): 650°F

Part Number	Container Size	Color
49204	3 oz. tube	Clear
49294	11 oz. cartridge	Clear*
	Silicone Gasket Makers	
49202	3 oz. tube	Red
49292	11 oz. cartridge	Red
* Available in marine grade & mildew resistant		

RTV SILICONE

Dynatex high strength Boltlocker is a single component, anaerobic liquid which chemically cures in the absence of air between close fitting metal surfaces. It has a high strength anaerobic threadlocking material that cures between engaged threads. Locks and seals metal threaded assemblies in a wide range of applications. Prevents nuts, bolts and other fasteners from loosening due to vibration. Prevents rusting of threads. Fixture tight in minutes.

49442 Medium Strength – Blue For application before assembly. Eliminates stocking lock washers & lock nuts. Can be removed without special tools. Fills gaps to .006".

49452 High Strength – Red Locks & seals where high strength is required. Fills gaps to .008". Protects threads against corrosion.

49462 Wicking Type – Green Locks & seals metal threads after assembly & adjustments are complete. Fills gaps to .005". Migrates into pre-assembled threads. Secures in minutes.

49472 Sleeve Retainer – Green Eliminates press & slip fits. Replaces splines & keys. Returns worn out-of-tolerance assemblies to fit.
Locks & seals studs, shafts & bearings. Fills gaps to .006".

Part Number	49442	49452	49462	49472
Color	Blue	Red	Green	Green
Viscosity	1,000 CPS	2,500 CPS	15 CPS	500 CPS
Gap Filling	0.007	0.010	0.003	0.01
Breakaway Torque	75–100	<125	<50	50–150
Prevailing Torque	30–100	<150	150-300	>200
Fixture Cure	20 min.	5 min.	3 min.	15 min.
Full Cure	8–24 hrs.	8–24 hrs.	8–24 hrs.	8–24 hrs.
Temp Range	–75 to 300°F			
Spec. Gravity	1.09	1.10	1.10	1.10

BOLTLOCKER

Superglue

SUPERGLUE

Instantly bonds glass, metals, plastics, & rubber. Bonds close-fitting parts in seconds. Works on clean surfaces of aluminum, copper, brass, steel, vinyl, PVC, polyester, nylon, fiberglass & wood.

#49403 Super Glue – Instant Bond

- 3 gram bottle
- Ethyl grade
- Bonds close fitting parts in seconds
- For aluminum, copper, brass, steel, vinyl, PVC, polyester, nylon, fiberglass & wood

#49431 Super Glue – Instant Bond

- 20 gram bottle
- Ethyl grade
- Bonds close fitting parts in seconds
- For aluminum, copper, brass, steel, vinyl, PVC, polyester, nylon, fiberglass & wood

Part Number	49403	49431
Color	Clear	Clear
Viscosity	100	100
Gap Filling	.002	.002
Holding Strength	3,200 PSI	
Fixture Cure - (Secs)	20-40	30-40
Full Cure - (Hrs)	8-24 hrs.	8-24 hrs.
Temp Range	–65°F to 180°F	
Spec. Gravity	1.06	1.06

DIAMOND COMPOUND

DME Diamond Polishing Compound For High-Quality Mold and Die Polishing

Quality of mold or die finish is frequently an important factor in how a mold or die operates. DME Diamond Compound is proven to produce the finest quality finish with considerable savings in time and labor.

DME Diamond Compound contains no adulterants, nor non-graded, non-working diamond "fines." The precision-graded diamond particles are uniformly and permanently dispersed and blended in a high-quality, universally soluble, synthetic vehicle giving the best compositions possible. Available in 5 gram and
18 gram sizes.

Note: Our compounds are not water soluble.
For best results use with our lubricating oil. See page 694

18 Grams

5 Grams

Usage	Micron Size	Color	Amount	Concentration	Part Number
Final Polishing	1/10	Gray	5 Grams	Medium	**DC11M5**
				Standard	**DC11S5**
				Heavy	**DC11H5**
			18 Grams	Medium	**DC11M18**
				Standard	**DC11S18**
				Heavy	**DC11H18**
	1/4		5 Grams	Medium	**DC14M5**
				Standard	**DC14S5**
				Heavy	**DC14H5**
			18 Grams	Medium	**DC14M18**
				Standard	**DC14S18**
				Heavy	**DC14H18**
	1/2		5 Grams	Medium	**DC12M5**
				Standard	**DC12S5**
				Heavy	**DC12H5**
			18 Grams	Medium	**DC12M18**
				Standard	**DC12S18**
				Heavy	**DC12H18**
	1	Ivory	5 Grams	Medium	**DC1M5**
				Standard	**DC1S5**
				Heavy	**DC1H5**
			18 Grams	Medium	**DC1M18**
				Standard	**DC1S18**
				Heavy	**DC1H18**

DIAMOND COMPOUND

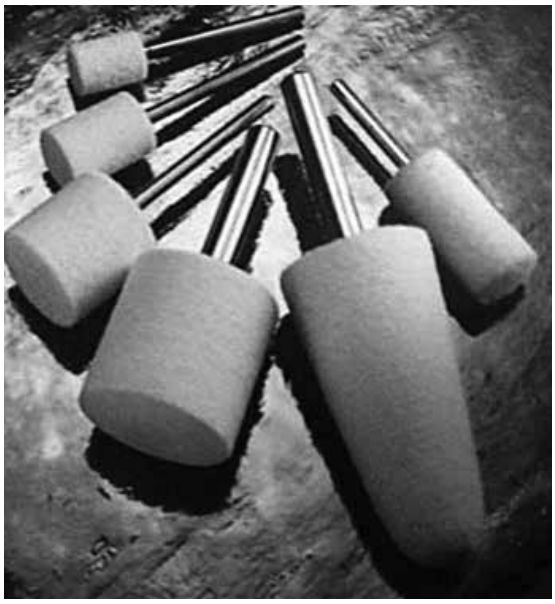
Usage	Micron Size	Color	Amount	Concentration	Part Number
Lapping/Pre-Polishing	3	Yellow	5 Grams	Medium	DC3M5
				Standard	DC3S5
				Heavy	DC3H5
			18 Grams	Medium	DC3M18
				Standard	DC3S18
				Heavy	DC3H18
	6	Orange	5 Grams	Medium	DC6M5
				Standard	DC6S5
				Heavy	DC6H5
			18 Grams	Medium	DC6M18
				Standard	DC6S18
				Heavy	DC6H18
	9	Green	5 Grams	Medium	DC9M5
				Standard	DC9S5
				Heavy	DC9H5
			18 Grams	Medium	DC9M18
				Standard	DC9S18
				Heavy	DC9H18
	15	Blue	5 Grams	Medium	DC15M5
				Standard	DC15S5
				Heavy	DC15H5
			18 Grams	Medium	DC15M18
				Standard	DC15S18
				Heavy	DC15H18
Rapid Stock Removal	30	Red	5 Grams	Medium	DC30M5
				Standard	DC30S5
				Heavy	DC30H5
			18 Grams	Medium	DC30M18
				Standard	DC30S18
				Heavy	DC30H18
	45	Brown	5 Grams	Medium	DC45M5
				Standard	DC45S5
				Heavy	DC45H5
			18 Grams	Medium	DC45M18
				Standard	DC45S18
				Heavy	DC45H18
	60	Natural	5 Grams	Medium	DC60M5
				Standard	DC60S5
				Heavy	DC60H5
			18 Grams	Medium	DC60M18
				Standard	DC60S18
				Heavy	DC60H18

Felt Bobs & Lubricant

Mounted Wool Felt Bobs

Our felt bobs are made of pure wool in a broad variety of sizes, shapes, and degrees of hardness - for any finishing requirement. The mandrels are exactly centered for true-running operation.

Shape	Part Number	Width	Depth
	FB503MS1A	½″	1″
	FB503MS2A	½″	½″
	FB503MS3F	½″	1″
	FB503MS5A	½″	¾″
	FB503MS6A	½″	½″
Cylinders			
	FB503CB2A	⅜″	⅜″
	FB503CB4	½″	½″



FELT BOBS

OS Type IV Lubricant

This low-viscosity, oil soluble lubricant is compatible with oil-based slurries and compounds, including our DME Diamond Compound.

Part Number	Description
OS510-2030	4 oz. lubricating oil

Part Number	Description
FPK301H312524	FPK301 H3 12,5x24 Felt Polish Bobs
FPK301H3S12524	FPK301 H3S 12,5x24 Felt Polish Bobs
FPK302H306515	FPK302 H3 06,5x15 Felt Polish Bobs
FPK302H3S06515	FPK302 H3S 06,5x15 Felt Polish Bobs
FPK304H313012	FPK304 H3 13,0x12 Felt Polish Bobs
FPK304H3S13012	FPK304 H3S 13,0x12 Felt Polish Bobs
FPK305H311015	FPK305 H3 11,0x15 Felt Polish Bobs
FPK305H3S11015	FPK305 H3S 11,0x15 Felt Polish Bobs
FPK306H322004	FPK306 H3 22,0x04 Felt Polish Bobs
FPK306H3S22004	FPK306 H3S 22,0x04 Felt Polish Bobs
FPK307H306010	FPK307 H3 06,0x10 Felt Polish Bobs
FPK307H3S06010	FPK307 H3S 06,0x10 Felt Polish Bobs
FPK308H308010	FPK308 H3 08,0x10 Felt Polish Bobs
FPK308H3S08010	FPK308 H3S 08,0x10 Felt Polish Bobs
FPK309H310012	FPK309 H3 10,0x12 Felt Polish Bobs
FPK309H3S10012	FPK309 H3S 10,0x12 Felt Polish Bobs
FPK310H312015	FPK310 H3 12,0x15 Felt Polish Bobs
FPK310H3S12015	FPK310 H3S 12,0x15 Felt Polish Bobs
FPK611H310015	FPK611 H3 10,0x15 Felt Polish Bobs
FPK611H3S10015	FPK611 H3S 10,0x15 Felt Polish Bobs
FPK612H312020	FPK612 H3 12,0x20 Felt Polish Bobs
FPK612H3S12020	FPK612 H3S 12,0x20 Felt Polish Bobs
FPK613H320025	FPK613 H3 20,0x25 Felt Polish Bobs
FPK613H3S20025	FPK613 H3S 20,0x25 Felt Polish Bobs
FPK614H3S12020	FPK614 H3S 12,0x20 Felt Polish Bobs
FPK618H310015	FPK618 H3 10,0x15 Felt Polish Bobs
FPK618H3S10015	FPK618 H3S 10,0x15 Felt Polish Bobs
FPK619H3S12020	FPK619 H3S 12,0x20 Felt Polish Bobs
FPK620H320025	FPK620 H3 20,0x25 Felt Polish Bobs
FPK620H3S20025	FPK620 H3S 20,0x25 Felt Polish Bobs

Safety Supplies

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I

Cotton Inspection Gloves

- Bleached cotton jersey
- Soft & hypo-allergenic
- Eliminates scratching
- Handle hotter parts sooner
- Prevents transfer of hand oils
- Disposable & recyclable
- Sizes to fit every worker
- Great value & quality

Part Number	Description
LL500	Ladies lightweight
ML500	Mens Lightweight
ML500J	Mens JUMBO-Lightwgt.
LM502	Ladies Medium-weight
MM502	Mens Medium-weight
LH503	Ladies Heavyweight
MH503	Mens Heavyweight

COTTON INSPECTION GLOVES

Nylon Inspection Gloves

- Lint-free nylon
- Stretchable
- Reversible
- Disposable
- Avoids static
- Handle hotter parts
- Feel for flaws
- Protects hands
- Keep parts clean
- Prevents scratching

Part Number
LTH700
MTH700

NYLON INSPECTION GLOVES

We offer excellent style and quality in our operator safety gloves. These cotton/poly blend gloves will protect hands and absorb perspiration, yet allow air to circulate around hand and fingers. These gloves keep parts protected from hand oils and fingerprints, while allowing your operator's maximum dexterity and tactile sense for part finishing. Gloves are reversible, washable, stretchable and reusable.

Part Number	
Men	Ladies
COTTON/POLY BLEND SOLD IN DOZEN	
MSG500	LSG500
DUPONT KEVLAR® SOLD IN PAIRS	
MKG500	LKG500

SAFETY GLOVES

MSG500
LSG500

Grip-Tite™ Safety Gloves

- Can be laundered or dry cleaned
- Cotton-acrylic knit shell, nitrile coating on palm: tough, flexible, long-wearing
- Grips tite, handles heat without melting
- Comfortable, seamless construction
- A great work glove for many areas!
- Cool & comfortable - absorbs perspiration

Part Number	
Men	Ladies
SSG8M	**SSG8L**

GRIP TITE

SSG8L
SSG8M

Rubber Gloves

Latex Rubber Gloves

- Yellow color
- Embossed palm & finger tips
- 13″ long
- 18 mil thickness
- Excellent dexterity
- Puncture resistant

RUBBER GLOVES

Grip-Right™ Rubber Coated Gloves

- Long-lasting, perspiration-free and long-wearing natural rubber coated palm is sure grip while the knitted shell breathes for added comfort
- Natural rubber coating has a embossed finish for extra gripping

Part Number	Size
Grip-Right™ Safety Gloves (Per Pair)	
GRG300M	Medium
GRG300L	Large
GRG300X	X-Large
Latex Rubber Gloves (Per DOZEN Pair)	
LRG500S	Small
LRG500M	Medium
LRG500L	Large
LRG500X	X-Large

Work Gloves

Cotton Jersey Gloves

- Brown color
- Clute pattern
- Knit wrist
- 9 oz. weight

Part Number	Size
Cotton Jersey Work Gloves	
CJG239L	Ladies
CJG239M	Men
100% Cotton Canvas Work Gloves	
CCG208L	Ladies
CCG208M	Men

WORK GLOVES

Cotton Canvas Gloves

- White color
- 8 oz. cotton
- Knit wrist for protection
- Soft, comfortable & washable

Leather Palm Work Gloves

Standard

Our standard leather palm work glove features full, shoulder-leather palm and fingers. They are heavy fabric backed with an elastic wrist strap and full rubberized 2 1/2″ safety wrist cuff.

Double Leather Palm

Same features as our standard leather glove with the addition of an extra layer of leather sewn over the palm, thumb and index finger for extra protection.

Part Number	Description
122	Standard Leather Palm Glove
122L	Same as above ~ except Ladies Size
122DLP	Double Leather Palm Glove

LEATHER GLOVES

Comfort Grip General

The Lightweight Heavyweight

Nitrile palm coating makes this glove a light, flexible, abrasion-resistant and long lasting alternative to many cotton and latex gloves. The nylon stretch liner makes these gloves perfect for light- to medium-duty jobs that require precision handling, especially in hot sweaty conditions

Applications:
- General material handling
- Handling small parts
- Electrical component assembly

Product on this page is no longer available

PART NUMBER	DESCRIPTION
CGMGU	GENERAL WORK GLOVE, NYLON WITH NITRILE PALM - MEDIUM
CGLGU	GENERAL WORK GLOVE, NYLON WITH NITRILE PALM -LARGE
CGXLGU	GENERAL WORK GLOVE, NYLON WITH NITRILE PALM, CUT LEVEL 1 - EXTRA LARGE

Comfort Grip Cut Resistant

A Cut Above

These medium duty gloves have the same features as the General Use glove with even greater cut, puncture and tear resistance. They are excellent for jobs requiring dexterity when handling sharp parts

Applications:
- Handling abrasive or sharp material
- Forming, bending or machining sharp parts
- Cable pulling and wire handling

PART NUMBER	DESCRIPTION
CGMCR	CUT RESISTANT GLOVE, NYLON WITH NITRILE PALM, CUT LEVEL 3- MEDIUM
CGLCR	CUT RESISTANT GLOVE, NYLON WITH NITRILE PALM, CUT LEVEL 3 - LARGE
CGXLCR	CUT RESISTANT GLOVE, NYLON WITH NITRILE PALM, CUT LEVEL 3 - EXTRA LARGE

3M™ Gripping Material / Work

Grip Lighter, Hold Tighter

Comprised of thousands of micro fingers, these gloves provide excellent grip, even in dirty, wet or oily conditions. The gripping material sewn into the palm and fingertips of these gloves helps improve the grip while providing slip resistance. The durable synthetic suede, combined with padded fingers and thumbs, adds protection, while the expansion areas on the finger backs and knuckles provide a comfortable fit.

Applications:
- Factory and maintenance work
- Heavy equipment operation

PART NUMBER	DESCRIPTION
WGS	GRIPPING MATERIAL WORK GLOVE - SMALL
WGM	GRIPPING MATERIAL WORK GLOVE - MEDIUM
WGL	GRIPPING MATERIAL WORK GLOVE - LARGE
WGXL	GRIPPING MATERIAL WORK GLOVE - EXTRA LARGE

West Chester Gloves

POSIGRIP®

A white nylon shell with gray palm coated lunar foam nitrile for excellent grip with dry, oily or wet applications. This glove has a knit wrist, is machine washable and is silicone free.

Applications:
- Material handling
- Manufacturing
- Machinery assembly

POSIGRIP

PART NUMBER	DESCRIPTION
MGP715SNFLWS	WHITE NYLON WITH GRAY NITRILE FOAM COATING , GENERAL - SMALL
MGP715SNFLWM	WHITE NYLON WITH GRAY NITRILE FOAM COATING , GENERAL - MEDIUM
MGP715SNFLWL	WHITE NYLON WITH GRAY NITRILE FOAM COATING , GENERAL - LARGE
MGP715SNFLWXL	WHITE NYLON WITH GRAY NITRILE FOAM COATING , GENERAL - EXTRA LARGE

Kevlar® Steel Cut Resistant

13g Kevlar® cut resistant glove with extended cuff, excellent abrasion resistance and microfoam nitrile palm coating. Antibacterial: DMF free. Cut level 4, heat rating 2.

Applications:
- Glass handling
- Metal fabrication
- Manufacturing & steel handling

KEVLAR CUT RESISTANT

PART NUMBER	DESCRIPTION
MCR713KSSNS	KEVLAR CUT RESISTANT LEVEL 4 - SMALL
MCR713KSSNM	KEVLAR CUT RESISTANT LEVEL 4 - MEDIUM
MCR713KSSNL	KEVLAR CUT RESISTANT LEVEL 4 - LARGE
MCR713KSSNXL	KEVLAR CUT RESISTANT LEVEL 4 - EXTRA LARGE

Pro Series® Tank® Gloves

TANK® features a hook and loop wrist, 4-way stretch spandex back of hand, synthetic leather palm, neoprene padded knuckle, heavy duty lycra four-chettes, synthetic leather patched palm with foam padding, terry thumb and reinforced thumb saddle.

Applications:
- Equipment operation
- Hand and power tool usage
- Rigging

PRO SERIES TANK

PART NUMBER	DESCRIPTION
MWG86500M	SYNTHETIC LEATHER WITH STRETCH SPANDEX BACK WORK GLOVE - MEDIUM
MWG86500L	SYNTHETIC LEATHER WITH STRETCH SPANDEX BACK WORK GLOVE - LARGE
MWG86500XL	SYNTHETIC LEATHER WITH STRETCH SPANDEX BACK WORK GLOVE - EXTRA LARGE

Thermoshield™ Gloves

Excellent Insulation - Thousands of terry cloth loops create a cushion of air that insulates against extreme temperatures. The range of thermal protection varies according to the duration of exposure.
Ergonomically - By eliminating stiff, bulky, uncomfortable seams, Thermoshield™ gloves provide a better fit, better breathability and greater comfort for enhanced productivity and less fatigue.
Reversible - Thermoshield™ gloves are reversible, to ensure maximum use from each individual glove; they pair easily after washing and can be replaced one glove at a time.
Superior Cost - Because Thermoshield™ gloves are machine knitted they provide greater consistency of quality than standard cut and sewn gloves.

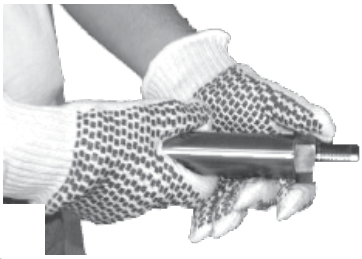
Applications
- Glass handling
- Injection molding
- Plastic processing
- Steel manufacturing

Part Number	Description
24AC	24 oz. Loop-out Terrycloth

THERMOSHIELD

Hot Mill Gloves

HMG500
- Comfortable and breathable
- Low-cost comfort
- Good to 450°F
- Seamless double knit
- High-heat nitrile blocks



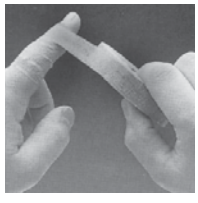
HMG500

Part Number		
Men	Women	Description
HMG500	HLG500	Hot Mill Gloves

HOT MILL GLOVES

Safe-T-Tape™

Safe-T-Tape sticks only to itself - not skin. No loss of finger sensitivity, allows skin to breathe. Protects without hindering precision. Replaces bulky gloves. Protects against abrasive surfaces, lessens harmful effects of friction. Works well in oil and water. Easy to apply and painless to remove; use to wrap fingers, wrists and hands. Excellent for many manufacturing applications.



Part Number	Color	Width	Bag Qty	Case Qty
110-075W	White	¾"	16 rolls	320 rolls
110-075G	Green	¾"	16 rolls	320 rolls
110-100G	Green	1"	12 rolls	240 rolls

SAFETY TAPE

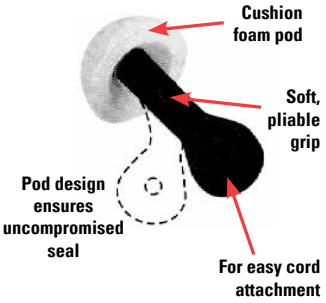
E.A.R. Express™ Pod Plugs

Pod Plugs are so comfortable you might forget you're wearing hearing protection! This new plug has a patented InstaSeal™ design which combines the comfort of a foam sealing pod and the convenience of a soft pliable grip for easy insertion and removal. When inserted, the pod instantly seals; these unique plugs provide a custom, secure fit in each unique ear canal. Pod plugs provide the needed protection with minimal distortion. They are ideal for noisy environments where communication is essential. Dispenser box of 100 pair contains mixture of colors (yellow, green, red, blue & purple).

NRR 25

E•A•R® Express™
Pod Plugs with patented InstaSeal™ System

- Soft plug with grip that allows quick, clean insertion
- Reusable yet economical enough to be disposable
- Colorful grips allow easy compliance monitoring



E.A.R. EXPRESS PODS

Part Number	Description
228008	Uncorded
228010	Corded
100 pair per box.	

E.A.R.™ Foam Ear Plugs

- Soft polymer foam expands for a custom fit
- Non-irritating improved fit
- Dermatologically safe, yellow foam

Part Number	Description
230005	Uncorded
230007	Corded
200 pair per box.	

EAR FOAM PLUGS

NRR 29

TaperFit 2 Ear Plugs

- 2 sizes - regular and large corded or uncorded
- Non-irritating, improved fit!
- Dermatologically safe, yellow foam

TaperFit Ear Plugs

Part Number	Description
230015	Uncorded - Reg. Size
230016	Corded - Reg. Size
230012	Uncorded - Plus Size
230014	Corded - Plus Size
200 pair per box.	

NRR= 32

Sound Shield Ear Muffs

Sound Shield #2900 NRR=29

- Maximum ratings and comfort
- 3 position ear muff
- Soft-Seal™ ear cushions and super-soft head pad
- Premium materials, design and fit

Part Number	NNR
2900	29

Sound Shield Ear Muffs

Sound Level Meter

- 3-½ digit LCD display with 0.1 dB resolution 30-segment analog bar graph
- Measure sound level from 40 to 130 dB
- Built-in 1" electric microphone for convenient one-hand operation
- Complete with 9V battery and carrying case

Digital Sound Level Meter #407730

Sound Level Meter

3M V4 Virtua Safety Glasses

The Virtua V4 protective eyewear line combines outstanding style, protection and affordability, all while offering wrap around coverage and soft, dual-injected temples that help relieve hot spots around the ears. Designed for indoor or outdoor use, Virtua V4 protective eyewear is a valuable choice in vision safety.

3M V4 Virtua Safety Glasses

- Unisex styling
- Soft, dual-injected temples
- Wrap-around lens
- Meets the High Impact Requirements of ANSI Z87.1-2003

Part Number	Description
11670	Clear hard coated lens, black/gray frames
11672	Clear anit-fog lens , black/gray frames

- Offers an unobstructed view, superior impact protection and exceptional comfort
- Cushioned brow, universal-fit nose bridge, and soft tip temples ensure a comfortable fit
- Polycarbonate lenses that filter out 99.9% of UV
- Compliant with ANSI Z87.1-2003 High Impact requirements

Part Number	Description
11228	Clear uncoated
11326	Clear hard coated
11329	Clear anti-fog

See quantity discount schedule at bottom of this page

3M Virtua Safety Glasses

3M Virtua Clear Anti-Fog with Foam

3M™ Virtua™ CCS Protective Eyewear with Foam Gasket features a comfortable seal that helps limit eye exposure to nuisance dust while providing additional cushioning. The anti-fog lens coating and removable foam-lined gasket with airflow vents make this protective eyewear ideal for humid environments.

Part Number	Description
11872	Clear, anti-fog lens

3M Virtua Clear Anit-fog with Foam

3M Virtua Clear Readers

Designed for workers who have difficulty reading small print or who are engaged in small detail work. Unisex styling. Lightweight design weighs less than one ounce. High wrap offers additional coverage. Contoured temples for comfortable fit. Polycarbonate lens absorbs 99.9% UV. Bifocal readers with three magnification diopters: +1.5, +2.0, +2.5. Meets the High Impact Requirements of ANSI Z87.1-2003.

Part Number	Description
11513	Readers AF+1.5, Diopter
11514	Readers AF+2.0, Diopter
11515	Readers AF+2.5, Diopter

3M Clear Readers

3M Safety Goggles

Safety Splash Goggles

- Venting system circulates air to help minimize fogging while keeping liquids out
- Dependable protection from liquids and particles
- Fits over most prescription glasses
- Meets the High Impact Requirements of ANSI Z87.1-2003.

Part No.	Description
40661	Safety Splash
40300	Safety Impact

Safety Impact Goggles

- Helps protect eyes from impact and particulates.
- Oversized, .060" lens thickness
- Comfortable elastic headband
- Meets the requirements of ANSI Z87.1-2003

Dispensers for Glasses

- Mount on wall or free-standing
- Encourages wearing of safety glasses
- Easy to see when you're running low
- Durable transparent acrylic
- Use with loose or boxed glasses

Part Number
SGD999

Dispenser

CALLL FOR AVAILABILITY ALL THIS PAGE

Elastic Wrist Wrap

- With thumb loop
- 3" wide elastic with Velcro closure
- Comfortable protection

Part Number	Description
881832	Elastic Wrist Wrap

Elastic Wrist Support

For wrist sprains, strains, fatigue and carpel tunnel syndrome. Elastic body provides compression and stability allowing worker to continue daily activities. Hook & loop closure, tapered tension strap. 7" length, black color.

Part Number	Right Hand	Left Hand
Small	884400	884401
Medium	884402	884403
Large	884404	884405
X-Large	884406	884407

Back Support

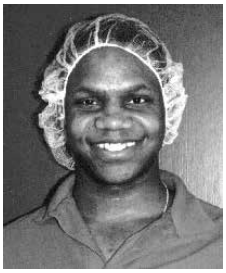
These back support belts are ergonomically designed and provide controlled support to the lower back region. Research has shown that most common back injuries are caused by lack of intra-abdominal pressure - or IAP - created by the constricting of abdominal and spinal muscles. The greater IAP, the higher the load the spine is able to accommodate without injury. Our back support belts are engineered to help increase the IAP to the highest level possible, while strengthening the lower lumbar area.

Removable Suspenders - easily detache so you can wear the belt alone

	Part Number	Size
Stretch band w/non-removable suspenders • Light lifting • Single adjustable 5" waistband	**RC629-7S**	S (28"–32")
	RC629-7M	M (33"–38")
	RC629-7XL	XL (45"–49")
Breathable nylon w/removable suspenders • All day use • Dual adjustable 4" waistband	**RC629-3CS**	S (28"–32")
	RC629-3CM	M (33"–38")
	RC629-3CXL	XL (45"–49")

Hair & Beard Nets

Non-Woven Head Cover
A low-cost disposable bouffant-style white polypropylene hairnet used in molding, inspection, assembly, clean-room and other areas requiring hair restraint. Meets all requirements for safety & sanitation.



Mesh Hair Nets
A washable bouffant-style white nylon hairnet used in cleanroom, assembly, molding, inspection and other areas requiring hair restraint. Elastic band assures a comfortable fit. 100 per box.

Beard Restraint
Breathable, non-woven fabric conceals beard, mustache and face area to help eliminate contamination. Stays secure with elastic band.

Part Number	Description	Size
530515	Mesh Hair Net (100/bag)	21"
530516	Mesh Hair Net (100/bag)	24"
530551	Non-Woven Head Cover (100/bag)	21"
530552	Non-Woven Head Cover (100/bag)	24"
530518	Beard Restraint (100/bag)	–

HAIR/BEARD NETS

Posi-Wear™

Posi-Wear™ This is a lightweight polypropylene spunbond laminated to an impervious polyethylene film, providing protection against dry particulates and water-based light liquid sprays and splashes.

PS3712 Posi-Wear™ 18" Arm Covers, elastic at both ends, one size fits all. 100 pair per case.

PS3714 Posi-Wear™ Shoe Covers, elastic opening, one size fits all. 100 pair per case.

Note: Both shoe & arm covers are priced per pair and the coveralls are priced each.

POSI-WEAR

PS3700 Posi-wear™ Coveralls with zipper & collar, available in M, L, XL ~25 per case.

Part Number	Description	Case Qty
PS3714	18" shoe cover	100 pairs
PS3712	18" arm cover	100 pairs
PS3700*	Coverall w/zippered front	25 each
*Add M, L or XL to specify size.		

3M® #8511 Dust/Mist Respirator

- Cool Flow™ valve allows for easy breathing
- Straps are out of the way, low profile design
- PEL not less than .05 mg/m^3

Part Number	Description
8511	3M dust/mist respirator

10 Per Box

RESPIRATOR

Meets OSHA guidelines for use up to NIOSH/M10XPEL

Bandages

Plastic Sheer Strips - Sterile, waterproof, vented to promote healing, low cost and ready to peel and stick. Rounded corners prevent roll-back and interference with work.

Woven bandages - Bend with constant motion. Constructed of comfortable, breathable woven material to keep workers cool and comfortable. Individual packages ensure sanitization.

Plastic Strips – 100 Per Box	
Part Number	Size
882324	¾″ × 3″
882321	1″ × 3″
Bulk Pack – 750/Tray	
882346	¾″ × 3″
882344	1″ × 3″

Woven Bandages – 100 Per Box	
Part Number	Size
882320	¾″ × 3″
882318	1″ × 3″
Bulk Pack – 650/Tray	
882347	¾″ × 3″
882345	1″ × 3″

BANDAGES

Industrial First Aid Kits

Sturdy metal cabinets can hang on the wall, yet if left unattached they are very easy to transport from area to area. Each First Aid Cabinet contains the maximum amount of supplies for your needs, economically priced to fit in your budget! Two sizes available. Each kit contains treatments for on-the-job injury and illness.

First Aid Kits	# 6430	# 6450
	25 person	50 person
1″ × 3″ adhesive bandage	50	100
Large wound compress	1	1
3″ gauze pads	10	
4″ gauze pads		25
Triangular bandages	1	1
2″ × 5 yard gauze bandage		1
4″ × 5 yard gauze bandage	1	1
½″ × 5 yard adhesive tape	1	1
1 oz. eye flush, pads, tape kit	1	
4 oz. eye flush, pads, tape kit		1
Antiseptic towelettes	10	20
ABT first aid/burn cream		
in .5 gm pkgs.	12	12
Elastic bandage 2″ × 5 yards		1
Cold pack	1	2
Forceps	1	1
Scissors	1	1
First aid guide	1	1
Latex gloves - 2 pair	1	1

Contents of 50-person kit

Contents of 25-person kit

Model Number 6430 Weatherproof plastic 25-person kit measures 10″ × 7.5″ × 3″

Model Number 6450 Weatherproof steel 50-person kit measures 14″ × 9.5″ × 3″

FIRST AID KIT

Eye & Skin Flush Station

Immediate irrigation is the critical first step to treat a chemical splash to the eye. The clinical outcome of this type of accident is directly related to how quickly treatment is begun. The formulation of this eye & skin flush solution is a sterile, isotonic, buffered solution that will work to neutralize the effects of acids and alkalis, while flushing away chemicals, foreign particles or irritants from the eye.

Model Number 24–202 32 oz. Eye & Skin Flush Station

Model Number 24–201 32 oz. Replacement Bottles

FAST-WIPES® Pre-Moistened Hand Cleaning Towels

FAST WIPES® are high-strength, disposable hand cleaning towels. Each towel is impregnated with a special GOJO heavy-duty, hand-cleaning formula that removes grease, grime and other soils in one fast, easy step while taking good care of your hands.

FAST WIPES® provide a quick cleanup, eliminating the need for many time-consuming trips to the sink throughout the day.

Part Number	Description
904-285	Gojo FastWipes® – 60 pack
904-298	Gojo FastWipes® – value pack (150)

FAST WIPES

Natural* Orange with Pumice Cleaner

Gojo® Natural* Orange with Pumice

This lotion hand cleaner is a petroleum-free citrus formula and has scrubbing pumice to deep clean, plus lanolin, aloe and jojoba to help protect hands.

*Natural citrus ingredient

Part Number	Description
904-008	1 gal. orange w/pumice ~ no bracket

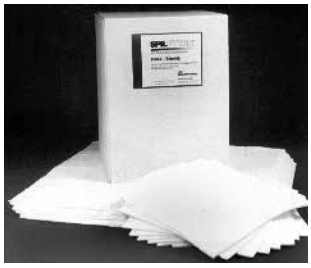
NATURAL ORANGE

Absorbent Pads

Perfect for soaking up oil around or under leaking machinery or for cleaning up oily tools. Use on benches for assembly or disassembly of pumps, gears and dirty or oily pieces.

Part Number	Size	Case Qty.
151012	12"×12" Pads	100
151050	20"×16" Pads	100

ABSORBENT PADS



6 Qt Utility Pan

Great multi-purpose plastic utility pan can be used for collecting oil, water or other non-aggressive liquid drips. Also may be used to collect and move parts.

Part Number UP1

Spill Control Kits

SPILL CONTROL KITS

Spilfyter®

Universal Sorbent, Zipper Bag Spill Kit

Absorbs up to 5 gallons!

Part Number 4553BG

Contents (20) single-weight SFG-70 16″ × 18″ universal pads

- (1 pr) nitrile gloves
- (1 pr) splash goggles
- (1) disposal bag
- (1) clear zipper bag
- (3) 3” × 4’ universal socks

- Easy to use and store, Grab & Go Zipper Bag Spill Kits contain a variety of spill response materials and equipment specifically designed to meet your needs
- Clear bag is easy-to-handle and carry, and keeps the contents visible to the spill responder
- Each kit has grommets, allowing it to be mounted on walls or other surfaces
- Zipper bag keeps sorbents clean and protected when not in use
- Kit measures approximately 22″ × 6″ × 18″ and weighs 5 pounds

Universal Mobile Spill Kaddie Kit

Absorbs up to 22 gallons!

Part Number 4500K2

Contents:

- (5) 3″ × 4′ Socks
- (8) 10″ × 10″ pillows
- (1) 15″ × 75′ universal sorbent roll
- (1) Disposal bag & twist tie
- (1 pair) nitrile gloves
- (1 pair) splash goggles
- Spill Kaddie on wheels

Features and Benefits

- Convenient and mobile spill kit with all the contents needed to handle a spill
- Contents stay clean and protected when not in use
- Mobile Kaddie can be moved and stored in a variety of locations
- Mobile Kaddie has easy open doors and hard plastic wheels
- Kaddie measures 36″ L × 24″ W × 16″ D and weighs 36 pounds

Refill Kit for Universal Mobile Spill Kaddie

Part Number 4500K2R

Contents:

- (5) 3″ × 4′ Socks
- (8) 10″ × 10″ pillows
- (1) 15″ × 75′ universal sorbent roll
- (1) Disposal bag & twist tie
- (1 pair) nitrile gloves
- (1 pair) splash goggles

SPILL CONTROL WIPES

Spilfyter®

Light-Duty Utility Wipes

Part Number 53600

Spilfyter brand light-duty utility wipes are a 2-ply wipe measuring 10.25" × 12". There are 125 wipes in a convenient pop-out box.
A great value tissue-based wipe.

Medium-Duty Utility Wipes

Part Number 50900

Spilfyter brand medium-duty utility wipes are a 4-ply wipe measuring 10.25" × 12". There are 150 wipes in a convenient pop-out box. Reinforced with a nylon scrim netting, these wipes hold up to tough cleaning jobs where durability is needed. Designed with a 4-ply construction and nylon wipe reinforcement, these scrim wipes can take on the toughest job.

Heavy-Duty Utility Wipes

Part Number 51800

Spilfyter brand heavy-duty utility wipes are a strong and durable 1-ply wipe measuring 10.25"× 12". There are 125 wipes in a convenient pop-out box.

Pre-Moistened Degreaser Wipes

Part Number SW20-70

Spilfyter brand pre-moistened degreaser wipes are a strong and durable wipe measuring 10" × 12". There are 70 wipes in a canister. A citrus degreaser, this wipe dissolves grime and works on the toughest grease, tar and printer's ink acting as a rust inhibitor.

Absorbent Pillows

Common machinery leaks and oil spills cause floors to become unappealing and dangerous. These products are designed for quick and economical cleanup of all non-aggressive liquid leaks and spills. Constructed primarily of cellulose fibers, this maintenance sorbent is also biodegradable.

- The easy-to handle solution to cleanup of oil spills on land and water
- Pillows are highly absorbent, picking up many times their weight in oil
- Designed for quick and economical cleanup of all non-aggressive liquid leaks and spills

Part Number	Size	Case Qty.
150032	12″×12″	12

PILLOWS

Absorbent Rolls

Use rolls on all sizes of oily spills and non-aggressive liquid discharges. Rolls can be cut to cover small areas such as under leaking machinery.
Sold individually.

Part Number	Size
151048	18″×150′ Roll

ROLLS

Absorbent Socks

Ideal for soaking up non-aggressive fluids, oils and other petroleum products. The moldable shape easily conforms to fit around equipment, drums, tanks, sinks or walkways. Sold individually.

Part Number	Size	Case Qty.
150304	3″× 4 Ft.	40
150310	3″× 10 Ft.	6

SOCKS

fresh start Polymer Solutions Inc.

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