MILACRON®

DME
Every step of the way

Section E Contents

E

CIMCOOL® Fluid Technology

CIMCLEAN® 30 Cleaner Concentrate

CIMCLEAN 30 is a multipurpose cleaner. It is an effective system cleaner for individual and central system cleanout.

CIMCLEAN 30 is recommended for cleaning individual machine and central system reservoirs, metalworking fluid lines, premix tanks, machines and parts. It effectively removes bio-films, dirt, grit, chip deposits, isolable soaps and oils from central systems and individual machine sumps. CIMCLEAN 30 contains corrosion inhibitors to protect machines and parts from rusting during the cleaning process. It is intended for use in systems working ferrous metals. CIMCLEAN 30 can also be used for general-purpose floor cleaning. It can be used in power washers, steam cleaners and automated floor scrubbers.

Method of Application:

CIMCLEAN 30 can be used in three ways, all of which are effective:

- **As a cleaner:** Drain used metalworking fluid and charge system with 2% CIMCLEAN 30 (mix one part CIMCLEAN 30 with 50 parts water). Fill reservoir as full as possible so the mixture contacts all surfaces. Circulate for at least 2-4 hours through all lines and machine tools (does not cause rust), drain, rinse and recharge with fresh CIMCOOL product.
- **With used fluid during shutdown:** After production ceases add one gallon of CIMCLEAN 30 concentrate to each 50 gallons of dirty fluid (2%) in the machine reservoir or central system. Circulate the mixture for four hours or longer through all lines and machine tools. Drain, rinse and recharge with fresh CIMCOOL product.
- **With used fluid during production:** Not recommended for individual machines unless carefully supervised. During production add one gallon of CIMCLEAN 30 to each 100 gallons of dirty fluid (1%) in the machine reservoir or central system. Circulate the mixture for 4-8 hours through all lines and machine tools, Drain, rinse and recharge with fresh CIMCOOL product.

Recommended starting dilutions:

CIMCLEAN 30 is to be mixed with water for use. Always add concentrate to water. Fluid may be more difficult to mix when water temperature is below 55°F (13°C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL District Manager.

System cleaning – 2% – 4% (1:50 – 1:25)
Floor cleaning – 1% – 4% (1:100 – 1:25)

Concentration:

A total alkalinity titration. CIMCHEK™ Test Strip or Refractometer can be used.

The refractometer factor is 3.6. Multiply the scale reading obtained on your CIMCOOL Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing. A refractometer is only recommended for use in checking the concentration of a fresh charge.

Typical Physical and Chemical Properties:

Physical State: Liquid	Silicones: None
Solubility in water: 100% miscible	Appearance and odor: Clear/Chemical
Viscosity (SUS) 100°F: NA	Weight, lb./gal 60°F (15°C): 9.1
pH Concentrate: 11.8	Flash Point/Sp.Gr./ Boiling point: SEE MSDS
Total Chlorine/Chloride, wt%: 0/50ppm	pH Mix 2%, Typical Operating: 10.5 Total Sulfur, wt%: 0

Handling and Storage:

If frozen, thaw completely at room temperature before use. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacturing of the product may cause slight variances in the data presented on this sheet.

Part Number	Description
B00609P000	5 gallon pail
B00609D040	55 gallon drum

CIMCOOL® Fluid Technology

CIMGUARD® 10 Solvent-Based Corrosion Preventative

CIMGUARD 10 is a general purpose solvent-based corrosion preventative. It is an organic rust inhibitor, which has water displacing properties and is a fingerprint neutralizer. The protective coating is thin, transparent, colorless and slightly oily.

CIMGUARD 10 is specifically designed for the prevention of corrosion from fingerprints or water. Useful for short-term indoor storage (up to 12 months) of dies, jigs, fixtures, machine surfaces and miscellaneous tools. Gives machined or ground parts in-process corrosion protection. Can be used with steel, cast iron, copper, zinc and aluminum.

Features & Benefits:

Versatile:

CIMGUARD 10 can be applied to wet or dry parts. It neutralizes fingerprint residues and protects ferrous and non-ferrous metals from corrosion.

CIMGUARD 10 rapidly displaces water from metal surfaces leaving a continuous polar protective film between the metal and water. Parts can be measured and gauged through its light protective film.

CIMGUARD 10 is non-emulsifying and not harmful to conventional lubricating oils and greases.

CIMGUARD 10 is available in bulk or aerosol containers.

Recommended starting dilutions:

CIMGUARD 10 is to be used as is. Add no other materials to the concentrate unless approved by your CIMCOOL District Manager.

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Clear/Chemical
Solubility in water: Insoluble	Specific Gravity: .82
Boiling Point: >355°F (bulk liq)	VOC Content (ASTM D2369):75% (bulk liq)
Flash Point, COC: 175°F	pH Concentrate: NA
Total Chlorine/Chloride, wt%: 0.00/<50ppm	Total Sulfur, wt%: 0.14

Handling and Storage:

Product is flammable. Do not heat. Avoid open flames, sparks, and temperatures approaching the flash point.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

Part Number	Description
B00302S002	Case of 12 9oz cans

E

CIMCOOL® Fluid Technology

CIMPERIAL® 1070 Metalworking Fluid

CIMPERIAL 1070 is a soluble oil recommended for heavy-duty machining and grinding operations.

CIMPERIAL 1070 is for heavy- to severe-duty machining and grinding operations such as milling, drilling, boring, reaming, tapping, sawing, broaching, and multiple grinding operations. It can be used on mild steels, stainless steels, hardened steels, exotics and most aluminum alloys. It should not be used on magnesium alloys.

Features & Benefits:

Excellent Lubricity:

- **Grinding:** Excellent grinding ability where wheel life and part quality are vital.
- **Machining:** CIMPERIAL 1070 will perform well in most machining applications, including drilling, reaming, sawing, form tapping, etc.
- **Microbial Control:** Good microbial control.
- **Corrosion Control:** Excellent rust protection. The oily residue keeps machine tools and parts from rusting.
- **Versatile:** CIMPERIAL 1070 can be used in virtually any operation on a variety of metals. CIMPERIAL 1070B is available where additional foam control is required in soft water.

Recommended starting dilutions:

CIMPERIAL 1070 is to be mixed with water for use. Always add concentrate to water. Fluid may be more difficult to mix when water temperature is below 55°F (13°C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL District Manager.

Grinding	5% – 10% (1:20 to 1:10)
Machining	5% – 10% (1:20 to 1:10)

Concentration:

MI Titration, Non-solvent Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 1.0

Multiply the scale reading obtained on your CIMCOOL Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing. A refractometer is only recommended for use in checking the concentration of a fresh charge.

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Hazy/Chemical
Solubility in water: 100% miscible	Weight, lb/gal, 60°F (15.6°C): 8.5
Viscosity (SUS) @ 100°F: 1000	Flash Point /Sp.Gr./Boiling Point: SEE MSDS
pH Concentrate: NA	pH Mix 5%, Typical Operating: 8.6
Total Chlorine/Chloride, wt%: 7.3/<50ppm	Total Sulfur, wt%: 0.1
Silicones: YES for CIMPERIAL 1070 / YES for CIMPERIAL 1070B	

Handling and Storage:

If frozen, thaw completely at room temperature. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

Part Number	Description
B00102P00	5 gallon pail

CIMCOOL® Fluid Technology

CIMPERIAL® 1060CF-HFP with FACT™ Metalworking Fluid for High Pressure Applications

CIMPERIAL 1060CF-HFP with FACT is a soluble oil metalworking fluid.

CIMPERIAL 1060CF-HFP with FACT is a premium product that contains lubricants for moderate to heavy duty operations. It is recommended for High Fluid Pressure and High Volume Flow Applications where minimization of foam is critical for part quality and machine operations. It is recommended for general purpose machining of ferrous and most non-ferrous applications. It can be used for turning, drilling, reaming, boring, milling and tapping as well as some grinding operations.

Features & Benefits:

CIMCOOL-HFP Fluids with FACT:

Provides superior foam control through the combination of product design, raw material selection and innovative antifoam technology. These fluids are the result of years of experience that have identified creative methods to prevent, control, and reduce foam, even when fluids are used in high pressure delivery systems. This expertise is only available in CIMCOOL-HFP Fluids with FACT.

Corrosion Protection:

The oily residue keeps machine tools and work-piece materials free of corrosion and staining. Good on most non-ferrous alloys as well.

Microbial Control:

Superior rancidity control if product concentration is properly controlled.

Recommended starting dilutions:

CIMPERIAL 1060CF-HFP is to be mixed with water for use. Always add concentrate to water. Fluid may be more difficult to mix when water temperature is below 55°F (13°C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL District Manager.

Grinding	5% – 10% (1:20 to 1:10)
Machining	5% – 10% (1:20 to 1:10)

Concentration:

Non-solvent Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 1.0. A refractometer is only recommended for use in checking the concentration of a fresh charge. Multiply the scale reading obtained on your CIMCOOL Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing.

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Hazy/Chemical
Solubility in water: 100% miscible	Weight, lb/gal, 60°F (15.6°C): 7.8
Viscosity (SUS) @ 100°F: 500	Flash Point /Sp.Gr./Boiling Point: SEE MSDS
pH Concentrate: NA	pH Mix 5%, Typical Operating: 8.9
Total Chlorine/Chloride, wt%: 0/<50ppm	Total Sulfur, wt%: 0.3
Silicones: YES	

Handling and storage

If frozen, thaw completely at room temperature. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

Part Number	Description
B01009P000	5 gallon pail
B01009D000	55 gallon drum

CIMCOOL® Fluid Technology

CIMSTAR® 10-565VLC/10-565VLCB Metalworking Fluid

CIMSTAR 10-565VLC is a VALUE-LINE semi-synthetic metalworking fluid.

The VALUE LINE of products offers cost-effective alternatives while maintaining good overall performance characteristics.

CIMSTAR 10-565VLC was developed for use on ferrous and most non-ferrous materials. It can be used on mild steels, stainless steels, hardened steels, exotic materials and most aluminum alloys. It should not be used on magnesium alloys.

Features & Benefits:

Versatile Product:

For use in moderate to heavy-duty machining and grinding applications, such as milling, drilling, cut tapping, reaming, boring and CBN, ID and centerless grinding.

Good lubricity and contains extreme pressure lubricant agents.

CIMCOOL "Value-Line":

Cost effectiveness with CIMCOOL performance

Foam Control:

CIMSTAR 10-565VLC has good foam control. If additional foam control is needed, CIMSTAR 10-565VLCB is also available.

Recommended starting dilutions:

CIMSTAR 10-565VLC is to be mixed with water for use. Always add concentrate to water. Fluid may be more difficult to mix when water temperature is below 55°F (13°C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL District Manager.

Grinding	5% – 10% (1:20 to 1:10)
Machining	5% – 10% (1:20 to 1:10)

Concentration:

An MI Titration, Non-solvent Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 1.5

Multiply the scale reading obtained on your CIMCOOL Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing. A refractometer is only recommended for use in checking the concentration on a fresh charge.

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Hazy/Chemical
Solubility in water: 100% miscible	Weight, lb/gal, 60°F (15.6°C): 8.7
Viscosity (SUS) @ 100°F: 850	Flash Point/Sp.Gr./Boiling Point: SEE MSDS
pH Concentrate: 10.0	pH Mix 5%, Typical Operating: 8.8
Total Chlorine/Chloride, wt%: 5.2/<50ppm	Total Sulfur, wt%: 0.2
Silicones: No for 565VLC/Yes for 565VLCB	

Handling and Storage:

If frozen thaw completely at room temperature. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

CIMSTAR 10-565VLC	
Part Number	**Description**
B01208P001	5 gallon pail
B01208D002	55 gallon drum

CIMSTAR 10-565VLCB (additional foam control)	
Part Number	**Description**
B01501P000	5 gallon pail
B01501D000	55 gallon drum

CIMCOOL® Fluid Technology

CIMSTAR® 700 Metalworking Fluid

CIMSTAR 700 is a semi-synthetic metalworking fluid.

CIMSTAR 700 was developed for use on ferrous and most non-ferrous materials. It can be used on mild steels, stainless steels, hardened steels and most aluminum alloys. It should not be used on magnesium alloys.

For use in light to moderate-duty machining and grinding applications, such as milling, drilling, cut tapping, reaming, boring and surface grinding.

Features & Benefits:

Versatile Product:

Good lubricity – physical and chemical lubricant agents provide good machining and grinding ability.

Corrosion Protection:

The oily residue keeps machine tools and work-piece materials free of corrosion and staining.

Microbial Control:

CIMSTAR 700 has good rancidity control if product concentration is properly maintained.

Foam Control:

CIMSTAR 700 has good foam control, CIMSTAR 700B has additional foam control for soft water conditions.

Recommended starting dilutions:

CIMSTAR 700 is to be mixed with water for use. Always add concentrate to water. Fluid may be more difficult to mix when water temperature is below 55°F (13°C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL District Manager.

Grinding	5% – 10% (1:20 to 1:10)
Machining	5% – 10% (1:20 to 1:10)

Concentration:

MI Titration, Non-solvent Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 2.1

Multiply the scale reading obtained on your CIMCOOL Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing. A refractometer is only recommended for use in checking the concentration of a fresh charge.

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Hazy/Chemical
Solubility in water: 100% miscible	Weight, lb/gal, 60°F (15.6°C): 8.5
Flash Point/Sp.Gr./Boiling Point: SEE MSDS	pH Concentrate: 9.5
Total Sulfur, wt%: 0.2	pH Mix 5%, Typical Operating: 8.9
Total Chlorine/Chloride, wt%: 0.0/<50ppm	Silicones: No for CIMSTAR 700 / Yes for CIMSTAR 700B

E

Handling and Storage:

If frozen, thaw completely at room temperature. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

Part Number	Description
B00016D000	5 gallon pail
B00016P000	55 gallon drum

CIMCOOL® Fluid Technology

CIMSTAR® QUAL STAR XL Metalworking Fluid

CIMSTAR QUAL STAR XL is a semi-synthetic metalworking fluid. It is a chlorine-free general purpose product for machining and grinding.

CIMSTAR QUAL STAR XL* was developed for use on ferrous and most non-ferrous materials. It can be used on mild steels, stainless steels, hardened steels, and most non-ferrous alloys. It should not be used on magnesium alloys.

For use in moderate-duty machining and grinding applications, such as milling, drilling, cut tapping, reaming, boring and in most grinding applications.

Features & Benefits:

Versatile Product:

This new generation bio-stable semi-synthetic blends the technical advantages of modern day synthetics fluids with the performance of soluble oils. Because of the unique formulation, this product can be used on tough applications like sawing but is also versatile enough for surface grinding, milling or turning.

Corrosion Protection:

The oily residue keeps machine tools and work-piece materials free of corrosion and staining.

Microbial Control:

CIMSTAR QUAL STAR XL has excellent rancidity control.

* CIMSTAR QUAL STAR XLB has the same performance characteristics as CIMSTAR QUAL STAR XL but has additional foam control.

Recommended starting dilutions:

CIMSTAR QUAL STAR XL is to be mixed with water for use. Always add concentrate to water. Fluid may be more difficult to mix when water temperature is below 55°F (13°C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL District Manager.

Grinding	5% – 10% (1:20 to 1:10)
Machining	5% – 10% (1:20 to 1:10)

Concentration:

An MI Titration, Non-solvent Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 1.7

Multiply the scale reading obtained on your CIMCOOL Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing. A refractometer is only recommended for use in checking the concentration of a fresh charge.

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Hazy/Chemical
Solubility in water: 100% miscible	Weight, lb/gal, 60°F (15.6°C): 8.5
Viscosity (SUS) @ 100°F: 500	Flash Point/Sp.Gr./Boiling Point: SEE MSDS
pH Concentrate: 9.9	pH Mix 5%, Typical Operating: 8.8
Total Chlorine/Chloride, wt%: 0.0/<50ppm	Total Sulfur, wt%: 0.4
Silicones: NO for CIMSTAR QUAL STAR XL/Yes for CIMSTAR QUAL STAR XLB	

Handling and Storage:

If frozen thaw completely at room temperature. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

Part Number	Description
B00219P000	5 gallon pail
B00219D000	55 gallon drum

CIMCOOL® Fluid Technology

CIMTAP® II Liquid Tapping Compound

CIMTAP II a water soluble general purpose tapping compound.

CIMTAP II can be used on steels, cast iron, stainless steel alloys, nickel alloys, aluminum, copper and brass. Not recommended for magnesium or magnesium alloys.

Features & Benefits:

Maximum Tap Life:

Good lubricity eliminates chip welding, tap burning and resultant tap breakage.

Accurate Threads:

Produces accurate threads on a wide variety of metals.

Maximum Production:

Works best at high tapping speeds.

Quick, Easy Application:

CIMTAP II is a liquid and can be applied from the squirt bottle, either during production or when the tap is stationary.

Clean:

Readily soluble in water. Does not leave deposits on the machine. Blind threaded holes can be cleaned with water or an air hose.

Residue:

Does not harden to a dry solid residue. Eliminates subsequent operations to remove residue.

Recommended starting dilutions:

FOR INDUSTRIAL USE ONLY
Use without diluting (100%)

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Pink Hazy/Chemical
Solubility in water: 100% miscible	Weight, lb/gal, 60°F (15.6°C): 8.6
Viscosity (SUS) @ 100°F: > 1500	Flash Point /Sp.Gr./Boiling Point: SEE MSDS
pH Concentrate: 9.3	pH Mix 100%, Typical Operating: 9.3
Total Chlorine/Chloride, wt%: 3.0/<50ppm Total	Sulfur, wt%: 0.6
Silicones: None	

Handling and Storage:

Protect from freezing. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

Part Number	Description
B00403S000	Case of 12 one pint bottles
B00403P000	5 gallon pail
B00403D000	55 gallon drum

E

CIMCOOL® Fluid Technology

CIMTECH® 320 Metalworking Fluid

CIMTECH 320 metalworking fluid is recommended for machining, including heavy-duty operations like form tapping aluminum, and grinding operations, including creep feed grinding, on non-ferrous or ferrous metals.

CIMTECH 320 can be used on wrought aluminum alloys (2024, 6061, 7050, 7075), cast aluminum alloys (380, 390), cast iron, nodular iron, carbon steels, stainless steels, titanium and other exotic alloys.

It should not be used on magnesium alloys.

For heavy-duty machining and grinding applications, CIMTECH 320 metalworking fluid is a unique, low pH synthetic fluid designed for the aerospace industry.

Features & Benefits:

Excellent Lubricity:

Provides excellent tool life and surface finish.

Excellent Cleanliness & Rancidity Control:

Rejects tramp oil to keep product clean and extend sump life.

Operator–Friendly:

Provides excellent part visibility. A fresh mix is transparent; no smoke; low misting; mild to the skin.

Excellent Foam Control:

Very low foaming product, even when used with de-ionized water.

Recommended starting dilutions:

CIMTECH 320 is to be mixed with water for use. Always add concentrate to water. Add no other materials to the concentrate or mix unless approved by your CIMCOOL District Manager.

Grinding	5% – 10% (1:20 to 1:10)
Machining	5% – 10% (1:20 to 1:10)

Concentration:

BCG Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 1.5

Multiply the scale reading obtained on your CIMCOOL Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing.

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Clear/Chemical
Solubility in water: 100% miscible	Weight, lb/gal, 60°F (15.6°C): 9
Viscosity (SUS) @ 100°F: 160	Flash Point/Sp.Gr./Boiling Point: SEE MSDS
pH Concentrate: 8.2	pH Mix 5%, Typical Operating: 7.9
Total Chlorine/Chloride, wt%: 0.0/0.09	Total Sulfur, wt%: 0
Silicones: None	

Handling and Storage:

If frozen, product separates. Thaw completely at room temperature and stir thoroughly before use. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

Part Number	Description
B01014P000	5 gallon pail
B01014D000	55 gallon drum

CIMCOOL® Fluid Technology

CIMTECH® 400 with MSL® Metalworking Fluid

MILACRON®

DME
Every step of the way

CIMTECH® 400 with MSL® is a clear, water-based synthetic metalworking fluid.

CIMTECH® 400 with MSL® was designed for cast iron, carbon steels, high-speed steel, high-alloy steel, and stainless steels. It is not recommended for use on magnesium.

For moderate to heavy-duty operations.

Features & Benefits:

Versatile:

Wide range of machining capabilities varying from high-speed to slow-speed operations. Displays good grinding capabilities in G-Ratios. Very low foaming with the use of silicone antifoam.

Tool Life:

Allows high speeds and feeds to increase production. Reduces heat in the chip formation process. Provides excellent cooling properties resulting in more precise part geometry.

Settiling Properties:

Effectively settles cast iron and steel fines, preventing recirculation of finish-marring swarf and clogging lines.

Microbial And Corrosion Control:

Greatly reduces odor problems even in individual machines. Gives longer product life. Provides excellent corrosion protection for ferrous metals.

Cleanliness:

Less residue buildup in low flow and splash zones than with other synthetics. Has good washing action to keep machine tools clean. Product leaves soft liquid film that is easily rinsed off parts for post-machining operations. Rejects tramp oil.

Recommended starting dilutions:

CIMTECH 400 with MSL is to be mixed with water for use. Always add concentrate to water. Add no other materials to the concentrate or mix unless approved by your CIMCOOL District Manager.

Grinding	5% – 10% (1:20 to 1:10)
Machining	5% – 10% (1:20 to 1:10)

Part Number	Description
B00291P000	5 gallon pail
B00291D000	55 gallon drum

Concentration:

BCG Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 2.3

Multiply the scale reading obtained on your CIMCOOL® Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing.

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Clear/Chemical
Solubility in water: 100% miscible	Weight, lb/gal, 60°F (15.6°C): 8.8
Viscosity (SUS) @ 100°F: 45	Flash Point /Sp.Gr./Boiling Point: SEE MSDS
pH Concentrate: 9.6	pH Mix 5%, Typical Operating: 9.1
Total Chlorine/Chloride, wt%: 0.0/<50ppm	Total Sulfur, wt%: 0.0
Silicones: None	

Handling and Storage:

If frozen, product separates. Thaw completely at room temperature and stir thoroughly before use. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

E

CIMCOOL® Fluid Technology

CIMTECH® 410C Metalworking Fluid

CIMTECH 410C metalworking fluid is recommended for machining and grinding operations of ferrous metals.

CIMTECH 410C can be used on cast iron, nodular iron, carbon steels, and stainless steels. It should not be used on magnesium alloys or non-ferrous materials.

Designed for moderate to heavy-duty machining applications such as milling, drilling, boring and reaming. It can also be used in light to moderate-duty grinding operations such as surface, double disc, center-type and internal grinding.

Features & Benefits:

Good Lubricity:

CIMTECH 410C has good lubricity and will extend tool and wheel life.

Excellent Foam Control:

CIMTECH 410C is low foaming even in turbulent grinding systems.

Excellent Cleanliness:

Rejects tramp oil to keep product clean, which extends sump life.

Operator – Friendly:

Provides excellent part visibility - A fresh mix is transparent; No smoke; low misting.

Excellent Rancidity Control:

Excellent fluid life, minimizing the need for additives.

Corrosion Protection:

Excellent rust protection for the work-piece and machine tool.

Environmentally Friendly:

Easily recycled.

Recommended starting dilutions:

CIMTECH 410C is to be mixed with water for use. Always add concentrate to water. Add no other materials to the concentrate or mix unless approved by your CIMCOOL District Manager.

Grinding	5% – 10% (1:20 to 1:10)
Machining	5% – 10% (1:20 to 1:10)

Concentration:

An BCG Titration, Total Alkalinity, CIMCHEK™ Test Strip or Refractometer can be used.

The Refractometer Factor is 2.5

Multiply the scale reading obtained on your CIMCOOL Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing.

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Clear/Chemical
Solubility in water: 100% miscible	Weight, lb/gal, 60°F (15.6°C): 8.8
Viscosity (SUS) @ 100°F: 45	Flash Point/Sp.Gr./Boiling Point: SEE MSDS
pH Concentrate: 9.8	pH Mix 5%, Typical Operating: 9.1
Total Chlorine/Chloride, wt%: 0.0/<1300ppm	Total Sulfur, wt%: 0
Silicones: None	

Handling and Storage:

If frozen, product separates. Thaw completely at room temperature and stir thoroughly before use. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

Part Number	Description
B00200P000	5 gallon pail
B00200D000	55 gallon drum

CIMCOOL® Fluid Technology

MILPRO® 840CF Metalworking Oil

MILACRON®

DME Every step of the way

MILPRO 840CF is a general purpose oil recommended for machining and grinding operations.

MILPRO 840CF can be used on ferrous metals. It is recommended for gun drilling, tapping, broaching and grinding.

Features & Benefits:

Excellent Lubricity:

MILPRO 840CF contains a carefully balanced lubrication package comprised of both a physical lubrication component and an extreme pressure additives. Also contains stable lubricity additives with very low depletion rates and high temperature stability.

Excellent Cooling:

MILPRO 840CF is a light viscosity fluid that offers excellent cooling capability for a straight oil.

Corrosion Control:

Excellent rust protection. The oily residue keeps machine tools and parts from rusting.

Improved Safety:

MILPRO 840CF is heavy-metal free.

Recommended starting dilutions:

MILPRO 840CF is to be used neat (100%). Add no other materials to the concentrate unless approved by your CIMCOOL District Manager.

Grinding	Neat (100%)
Machining	Neat (100%)

Typical Physical and Chemical Properties:

Physical State: Liquid	Appearance and Odor: Clear/Chemical
Solubility in water: Insoluble	Weight, lb/gal, 60°F (15.6°C): 7.3
Viscosity (SUS) @ 100°F: 80	Flash Point /Sp.Gr./Boiling Point: SEE MSDS
pH Concentrate: NA	pH Mix 5%, Typical Operating: NA
Total Chlorine, wt%: 0	Total Sulfur, wt%: 2.1

Handling and Storage:

If frozen, thaw completely at room temperature. Inside storage is recommended.

Safety Data Sheet is available online at www.dme.net

For additional information refer to its OSHA SDS or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL Technical Services at 513-458-8199.

Limitation of Liability: Under no circumstances, shall CIMCOOL or any affiliate of ours have any liability whatsoever for loss of use, or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.

E

Part Number	Description
B00642P000	5 gallon pail
B00642D000	55 gallon drum

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.

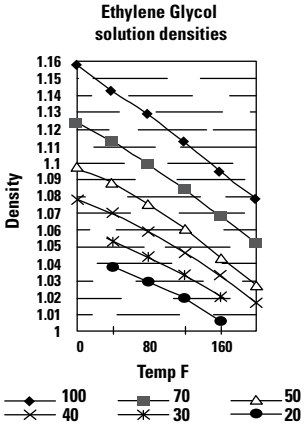
Compared with inhibited glycols, uninhibited glycols oxidize in the presence of air and heat, forming acids. These acids can be corrosive to the metal in a system. Inhibited glycols neutralize the acids formed and thus protect against corrosion.

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 Ethylene Glycol		
Part Number	**Container Size**	**Price Quantity**
ELG2-5	5 Gal.	1 to 3
ELG2-5	5 Gal.	4 to 10
ELG2-55	55 Gal.	1–2
ELG2-55	55 Gal.	3+

QUANTITY DISCOUNT

Discount applies to current pricing:

4 or more 5 gal containers - less 6%

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 flash point, +240°F
- Shipped from stock
- Compare our quality, compare our price!

Shell® Brand Uninhibited		
Part Number	**Container Size**	**Price Quantity**
ELG5	5 Gal.	1 to 3
ELG5	5 Gal.	4 to 10
ELG55	55 Gal.	1–2
ELG55	55 Gal.	3+

Heat Transfer Fluid

MILACRON®

DME
Every step of the way

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
600°F	4.72

Therminol XP™

Part Number	Container Size
HTFXP5	5 Gallon
HTFXP55	55 Gallon

Shipping weight: 5 gallon/41 Lbs, 55 gallon/465 Lbs

QUANTITY DISCOUNT

Discount applies to current pricing:
6 or more 5 gal containers - less 12%

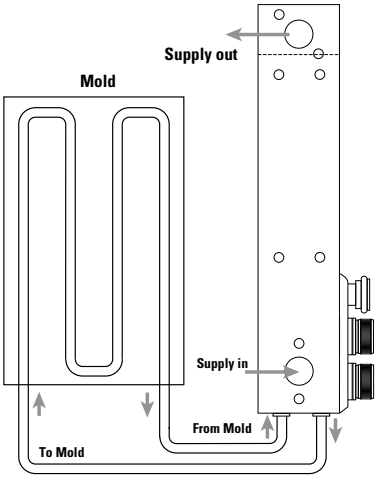
E

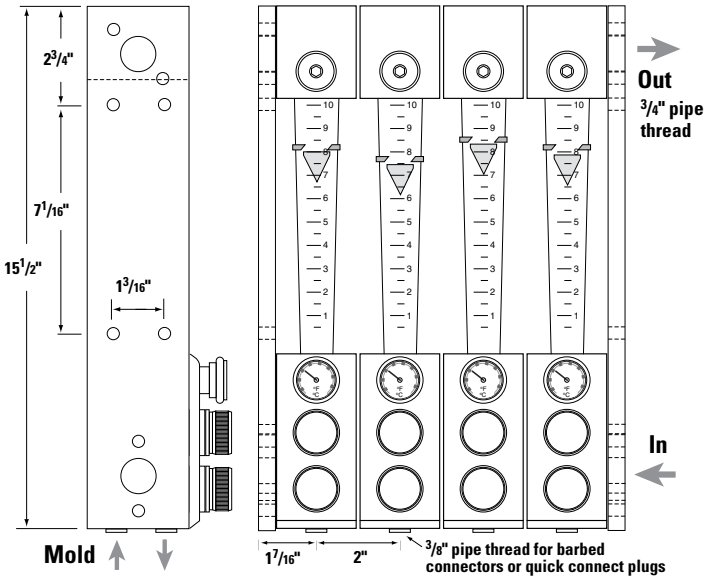
Flow Regulator

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.)



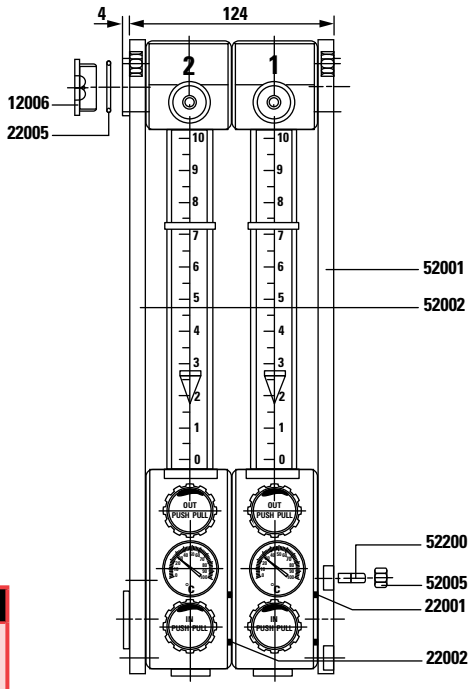


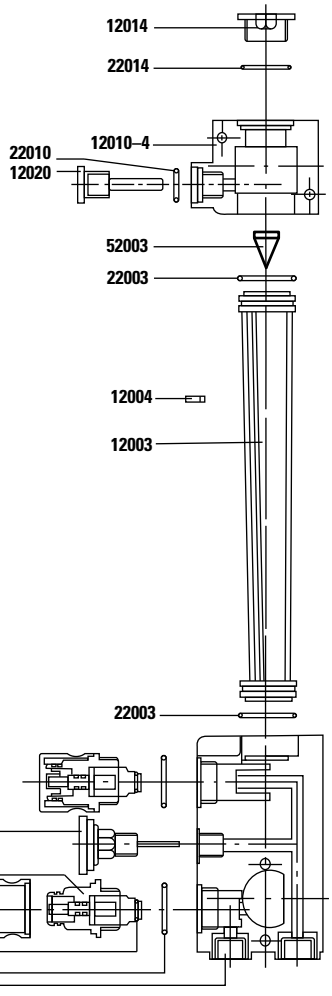
Easy cleaning capability without dismantling (access to tube through removable top plug.)

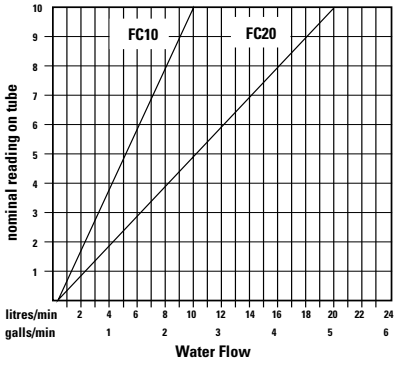
U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

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 Tubes

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.

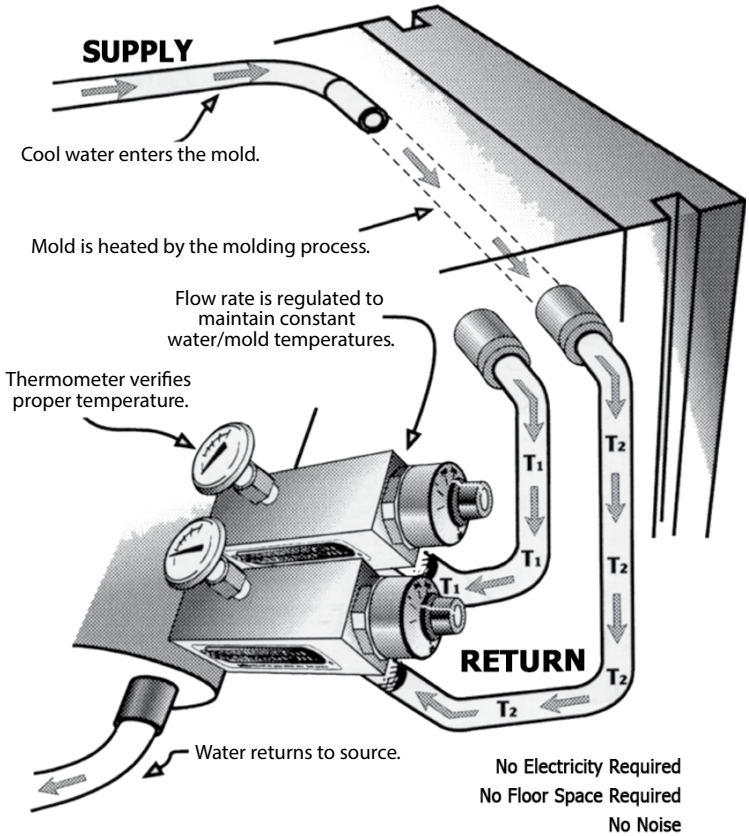
Part Number	Inlet/Outlet	Width	Length	Height	PSI	Weight
WDT2N2N4	¼" NPT inlet and ½" NPT outlet	2.95"	6.02"	1.72"	150	3 lbs.
WDT2S2P2	¼" quick-connect coupler and plug	2.95"	6.02"	1.72"	150	3 lbs.
WDT2S3P3	⅜" quick-connect coupler and plug	2.95"	6.02"	1.72"	150	3 lbs.

- 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.



U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

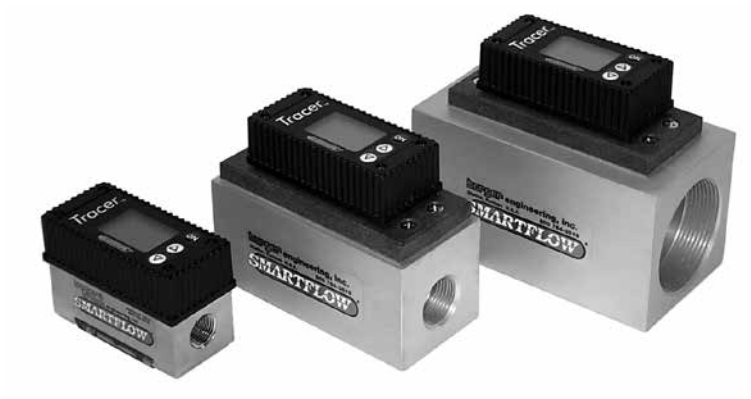
Electronic Flowmeter

MILACRON®

DME
Every step of the way

Tracer Electronic Flowmeter

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. And, it will calculate BTU's. With the new information the Tracer™ will provide, you can manage your processes more completely and accurately.



Part Number	Inlet/Outlet	Temp. Range	Temp. Accuracy	Flow	Flow Accuracy	Weight
DD3B	⅜" NPT inlet and outlet	32°–230°F	+ or – 2%	.5 – 5.0GPM	+ or – 3%	1.5 lbs.
DD3E	⅜" quick-connect coupler and plug	32°–230°F	+ or – 2%	.5 – 5.0GPM	+ or – 3%	1.5 lbs.

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.

Versatile

The Tracer™ can be mounted in any position. It can accept flow in either direction and it has 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.

MILACRON®

DME
Every step of the way

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
- 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
- ⅜" 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 calculation is available as standard.

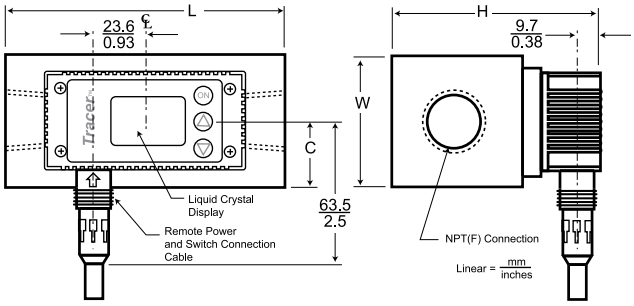
The Tracer Electronic Switching Flowmeter is designed to be permanently mounted to closely monitor water flow and temperature conditions. The SPDT switch in the Tracer flowmeter can be wired directly to an alarm circuit in a process controller or other peripheral equipment. The NPT(F) threaded openings 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. 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	⅜" NPT(F)	0–8	0–30	87/3.42	58/2.27	42/1.67	21/0.83
DDS6B	¾" 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	1-½" NPT(F)	6.5–60	25–228				
DDS16B	2" NPT(F)	10–110	38–418				

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Features

- Compact, rugged design
- 210° 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	Nylon
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

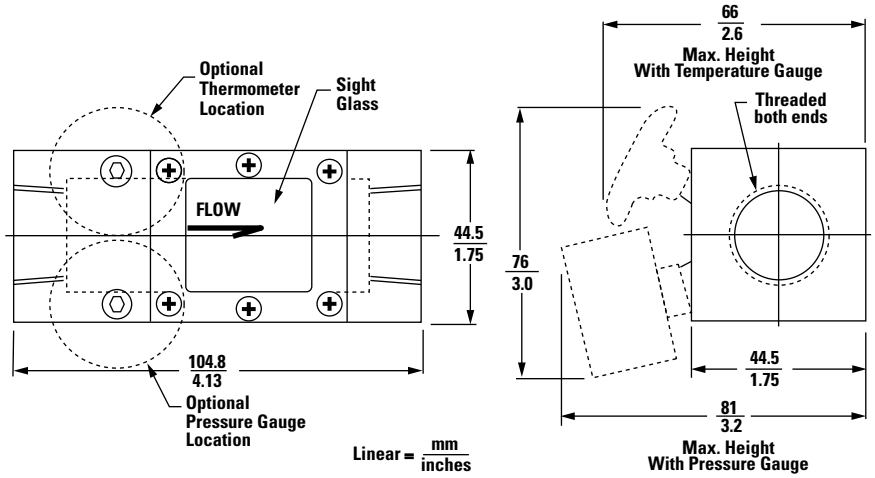
1" NPT, 2 to 20 GPM
Part Number F8B20

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°

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

1¼" NPT, 2.5–40 GPM
Part Number F10A

1½" NPT, 2.5–40 GPM
Part Number F12A40

1½" 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

1¼" NPT, 2.5–40 GPM
Part Number F10B

1½" NPT, 2.5–40 GPM
Part Number F12B40

1½" 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

1¼" NPT, 2.5–40 GPM
Part Number F10C

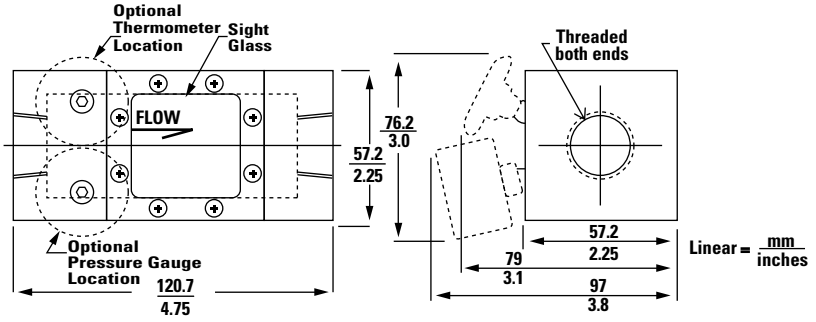
1½" NPT, 2.5–40 GPM
Part Number F12C40

1½" NPT, 10–100 GPM
Part Number F12C

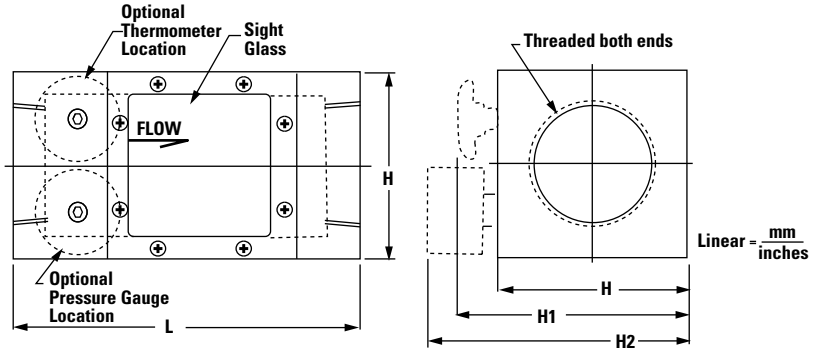
2" NPT, 2.5–40 GPM
Part Number F16C40

2" NPT, 10–100 GPM
Part Number F16C

1"and 1–¼" Flowmeters 40 gpm



1–½ ", 2" Flowmeters 40, 100



Dimension Chart		
Dim.	Body Size	
	1–½ or 2"	3"
L	139.7/5.5	165.1/6.5
H	76.2/3.0	101.6/4.0
H_1	99/3.9	124.5/4.9
H_2	114/4.5	139.7/5.5

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

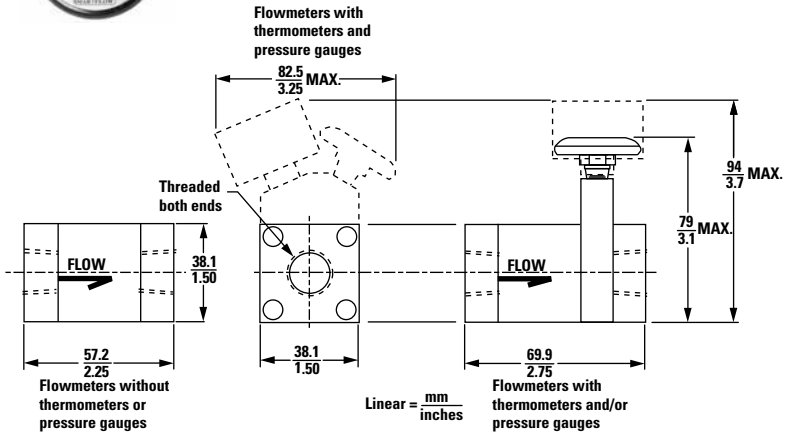
Smartflow® Kits/Flowmeters

MILACRON®
DME
Every step of the way

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
- ¼", ⅜" or ½" 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
		¼" NPT.....**F2A** ⅜" NPT.....**F3A** ½" NPT.....**F4A** ¾" NPT **F6A**	¼" NPT..... **SF2A** ⅜" NPT..... **SF3A** ½" NPT..... **SF4A** ¾" NPT..... **SF6A**
Flow & Temp. & Pressure		**Smartflow Flow, Temp. & Pressure 1 – 8 GPM**	**Smartflow Flow, Temp. & Pressure .5 – 2.5 GPM**
		¼" NPT.....**F2C** ⅜" NPT.....**F3C** ½" NPT.....**F4C** ¾" NPT.....**F6C**	¼" NPT..... **SF2C** ⅜" NPT..... **SF3C** ½" NPT..... **SF4C** ¾" NPT..... **SF6C**
Flow & Temp.		**Flow & Temp. 1 – 8 GPM**	**Flow & Temp. .5 – 2.5 GPM**
		¼" NPT.....**F2B** ⅜" NPT.....**F3B** ½" NPT.....**F4B** ¾" NPT.....**F6B**	¼" NPT..... **SF2B** ⅜" NPT..... **SF3B** ½" NPT..... **SF4B** ¾" NPT..... **SF6B**
Flow & Pressure		**Flow & Pressure 1 – 8 GPM**	**Flow & Pressure .5 – 2.5 GPM**
		¼" NPT.....**F2F** ⅜" NPT.....**F3F** ½" NPT.....**F4F** ¾" NPT.....**F6F**	¼" NPT..... **SF2F** ⅜" NPT..... **SF3F** ½" NPT..... **SF4F** ¾" NPT..... **SF6F**



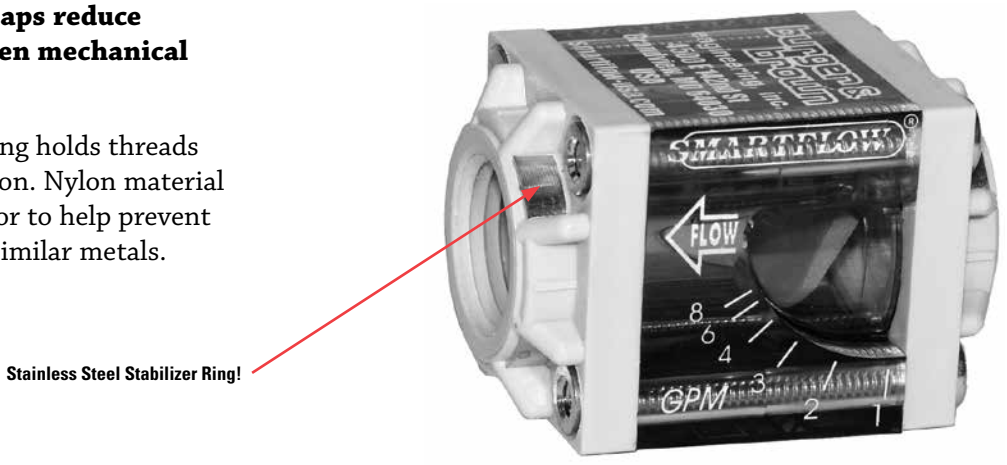
E

Small Mechanical 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	Zinc-plated steel
Optional Quick-Connect Fittings	Brass

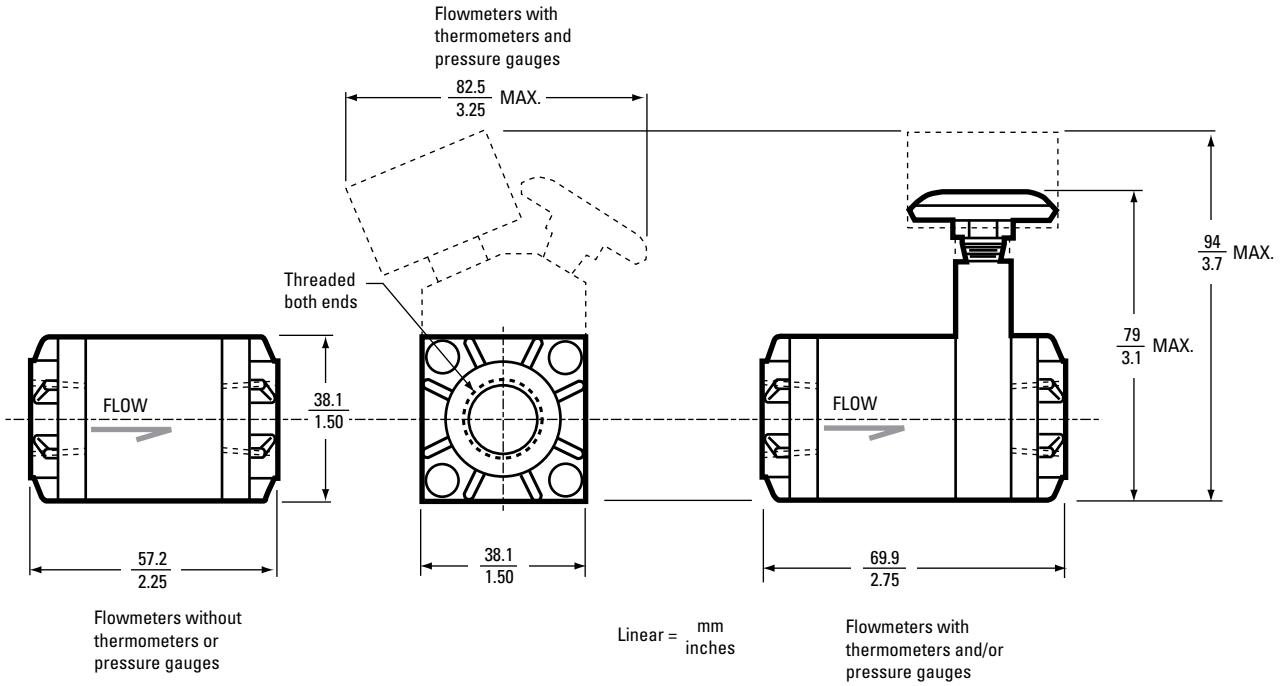
Made in USA!

Specifications

Flow Accuracy	±10% full scale
Operating Temperature	210°F max. (99°C max.)
Operating Pressure	75 PSI max. (5.2 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)

Small Mechanical Flowmeters

With Nylon 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

E

Precision Flow Regulator

ΔELTA-Q™ from SMARTFLOW®

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, 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.

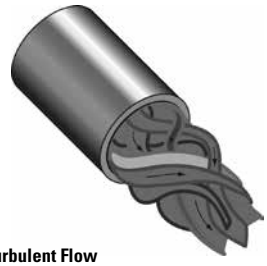
The modular design allows users to customize models meeting scientific cooling requirements for each application. The glass-filled nylon body is lightweight and durable. Internal stainless steel components are resistant to corrosion.

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 Cooling℠ and Delta-Q

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 only

DELTA-Q™

Use when flow indication is not required.

Model Number

	F3	A	Q

Brass End Caps

¼"NPT(F)	**F2**
¼"BSPP(F)	**F2B**
⅜"NPT(F)	**F3**
⅜"BSPP(F)	**F3B**
½"NPT(F)	**F4**
½"BSPP(F)	**F4B**

Nylon End Caps

¼"NPT(F)	**FP2**
¼"BSPP(F)	**FP2B**
⅜"NPT(F)	**FP3**
⅜"BSPP(F)	**FP3B**
½"NPT(F)	**FP4**
½"BSPP(F)	**FP4B**

Options

A	Regulator only
B	Thermometer
C	Thermometer and pressure gauge
CL	Thermometer and liquid-filled pressure gauge
F	Pressure gauge
FL	Liquid-filled pressure gauge

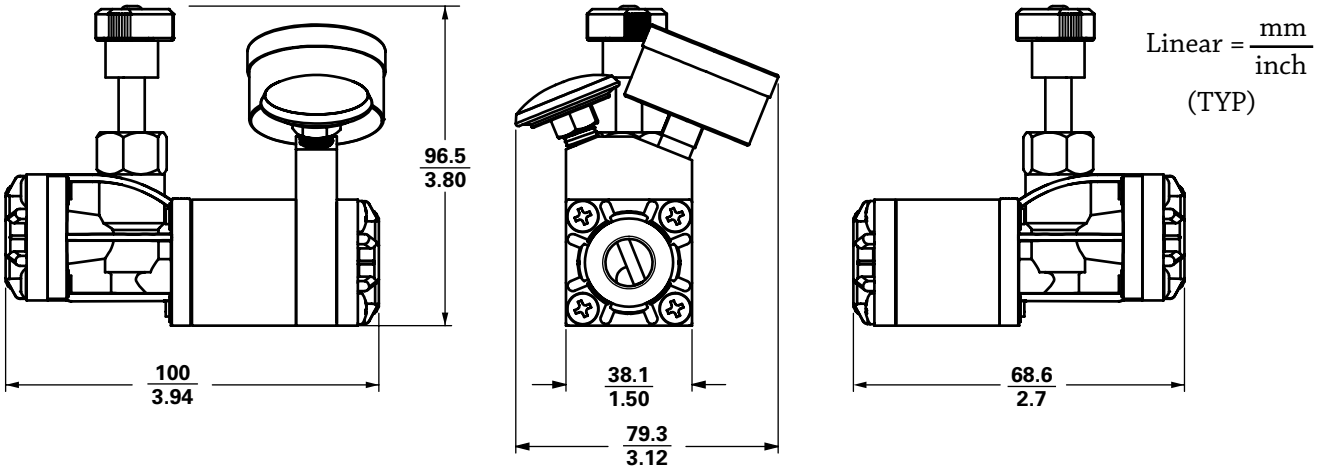
FP3-F-Q

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)



U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Precision Flow Regulator with Icecube™ Flowmeter

DELTA-Q™

Use when flow indication is required.

Model Number

F3	A	25	QR

Brass End Caps

¼"NPT(F)	**F2**
¼"BSPP(F)	**F2B**
⅜"NPT(F)	**F3**
⅜"BSPP(F)	**F3B**
½"NPT(F)	**F4**
½"BSPP(F)	**F4B**

Nylon End Caps

¼"NPT(F)	**FP2**
¼"BSPP(F)	**FP2B**
⅜"NPT(F)	**FP3**
⅜"BSPP(F)	**FP3B**
½"NPT(F)	**FP4**
½"BSPP(F)	**FP4B**

Flow Direction

QR	Return (standard flow in)
QS	Supply (flow out)

Flow Rate (max.)

15	1.5 GPM (gallons per minute)
25	2.5 GPM
80	8.0 GPM
100	10 LPM (liters per minute)
200	20 LPM
300	30 LPM

Options

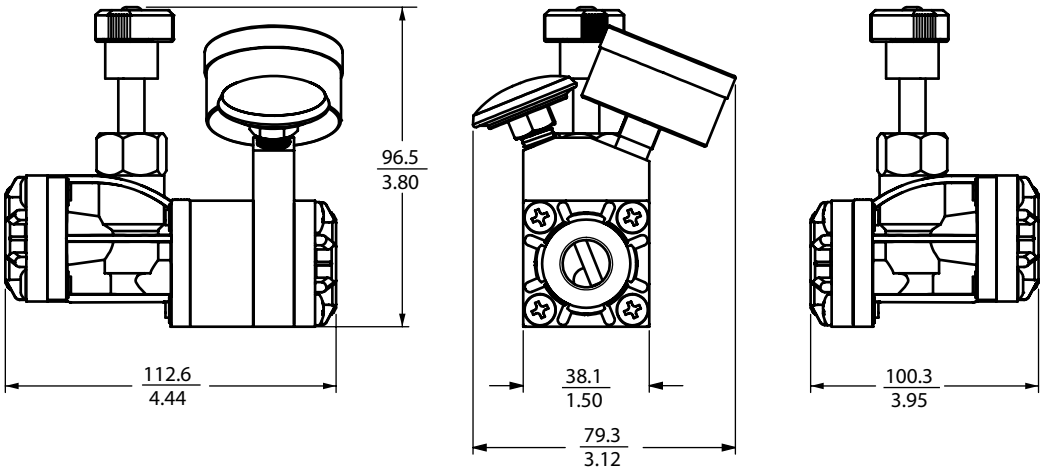
Flow body only	**A**
Thermometer	**B**
Thermometer & press. ga.	**C**
Thermometer and liquid-filled press. ga.	**CL**
Thermometer and quick-change socket and plug	**E**
Pressure gauge	**F**
Liquid-filled	**FL**

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 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)



Linear = mm / inch (TYP)

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

¼"NPT(F)	**FC2**
¼"BSPP(F)	**FC2B**
⅜"NPT(F)	**FC3**
⅜"BSPP(F)	**FC3B**

Nylon End Caps

Inlet Size

¼"NPT(F)	**FCP2**
¼"BSPP(F)	**FCP2B**
⅜"NPT(F)	**FCP3**
⅜"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)

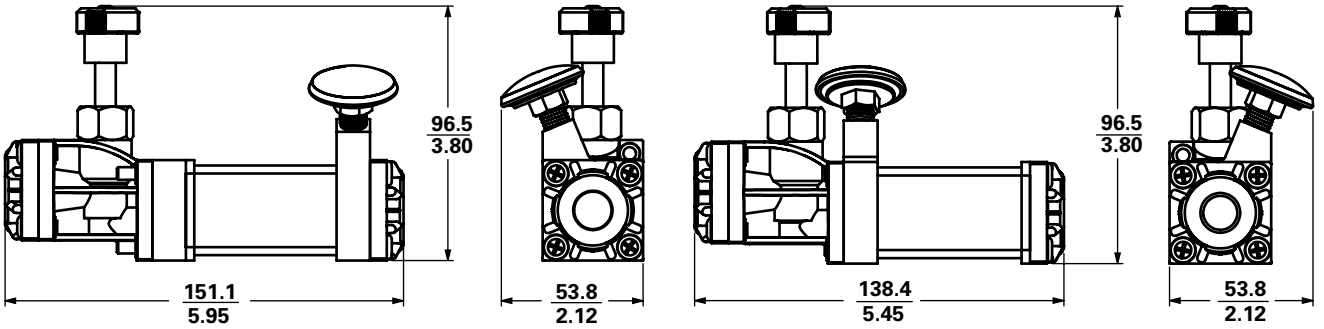
Wetted Parts and Materials

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.



Flow direction — FCP3 B E QR — Flow direction — FCP3 B E QS

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Precision Flow Regulator with ⅜" Tracer® Flowmeter

MILACRON®

DME Every step of the way

ΔELTA-Q™

Use when electronic flowmeters are required.

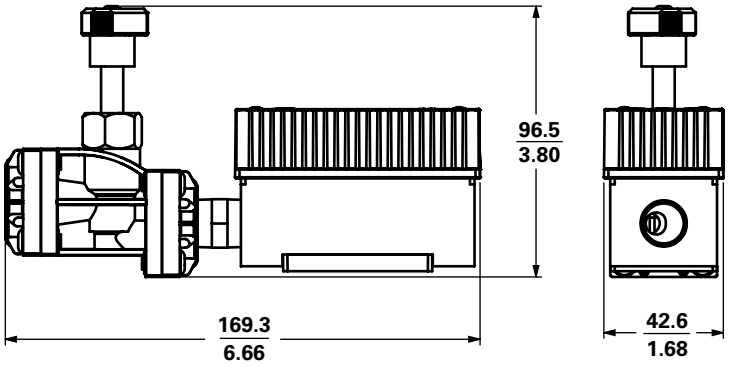
Model Number

	DD	3BB	Q	
Meter Style				**Delta-Q End Cap Material**
Digital display	**DD**			
Digital display plus switching	**DDS**			
			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.

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



Flow direction

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 Mainfold 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**

Temperature Gauge Option

AQ	without temp. gauge
TQ	with temp. gauge

Flow Regulator End Cap Material

B	Brass
N	Nylon

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

6SA432TQNY80

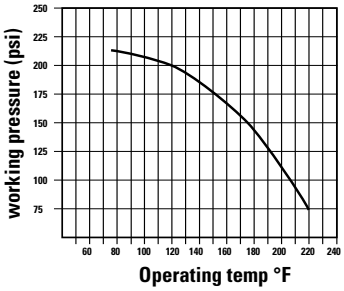
Contact DME Industrial Supplies for options not shown.

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.

- Available with ½", ¾" & 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 ½" NPT female and ¾" 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

Media	Flow Range	Part Number		
		1*Male NPT Polysulfone	¾" Male NPTF Brass	½" Female NPTF Brass
Water	1.0 – 16 GPM	625–016	621–016	624–016
1.0 Sp. Gr.	3.0 – 18 GPM	625–018	621–018	–
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.

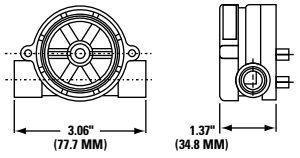
*Do not use pipe dope. Use PTFE tape only.

Flow Indicators

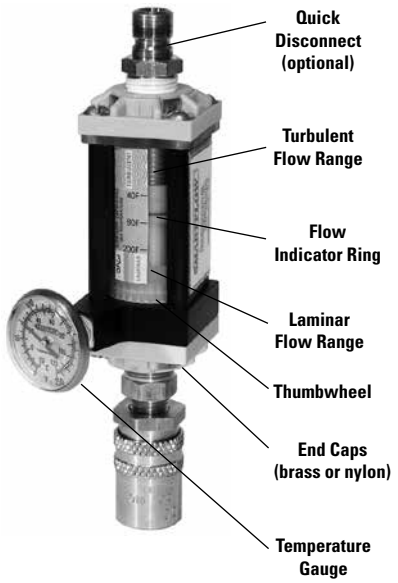
Visual Flow Indicators provide simple, effective confirmation of coolant flow in mold systems. Prevent dangerous and costly blocked pipe situations.

Visually bright orange spinning rotor
Operating temperature 212°F (100°C) max.
Pressure 100 PSI max.
¼" or ½" ports
Includes low-flow adapter for measuring lower flow rates.

Port Size NPT	Flow range (GPM)		Part Number
	Standard	Low Range	
¼"	0.5 to 5.0	0.1 to 1.0	**VF155420**
½"	4 to 20	1.5 to 12	**VF155480**



Dr. Eddy™ Flowmeters



Dr. Eddy Diagnoses Flow Condition

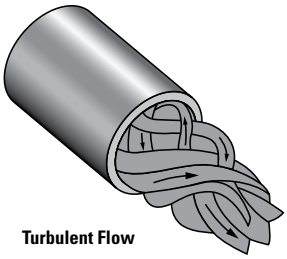
Using Fluid Characteristic Indication (FCI) technology, Dr. Eddy displays the condition of the water as it relates to flow efficiency: laminar flow, transient flow or turbulent flow. Dr. Eddy has four scales built into the meter: three scales for FCI and one scale for flow rate. FCI Scales are selectable 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.

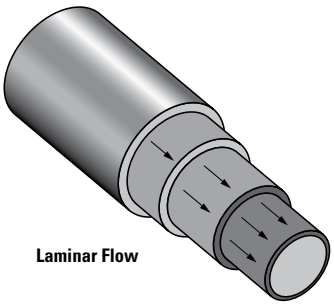
U.S. Patent No. 7,549,348

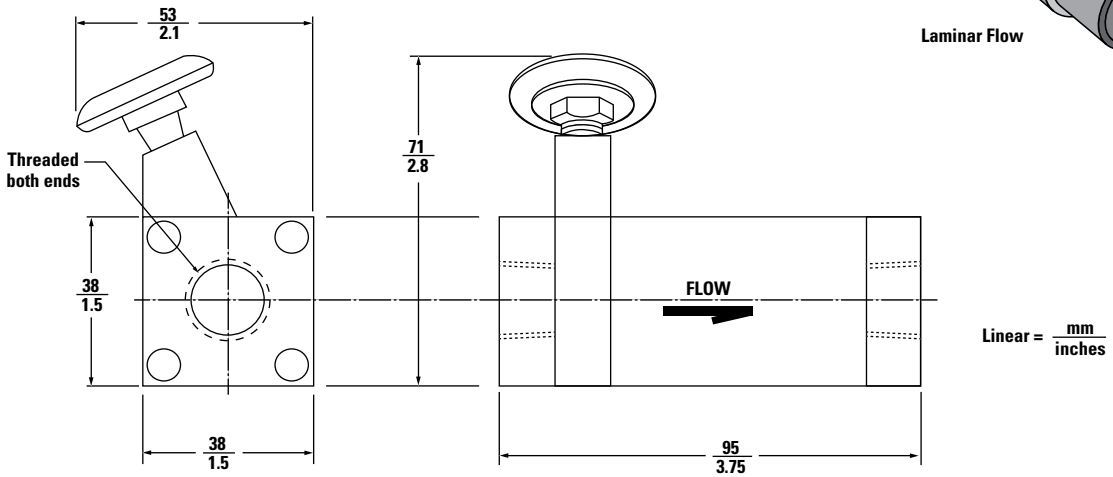
Turbulent Flow Basics

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	1/4"	Nylon	English (°F)	–	FCP2BE
				Yes	FCP2EE
		Brass		–	FC2BE
				Yes	FC2EE
	3/8"	Nylon		–	FCP3BE
				Yes	FCP3EE
		Brass		–	FC3BE
				Yes	FC3EE
	1/4"	Nylon	Metric (°C)	–	FCP2BM
				Yes	FCP2EM
		Brass		–	FC2BM
				Yes	FC2EM
	3/8"	Nylon		–	FCP3BM
				Yes	FCP3EM
		Brass		–	FC3BM
				Yes	FC3EM

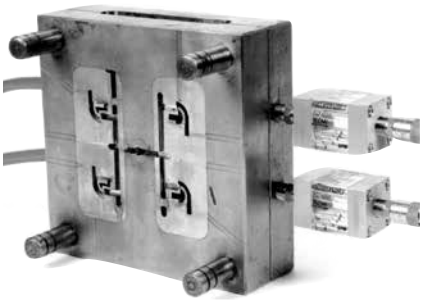
E

BSP Thread

Type	Size (of inlet)	Material (of End Caps)	Scale Units	Quick Disconnects?	Part Number
FCI Flowmeter w/temp. and flow gauges	1/4"	Nylon	English (°F)	–	FCP2BBE
		Brass		–	FC2BBE
	3/8"	Nylon		–	FCP3BBE
		Brass		–	FC3BBE
	1/4"	Nylon	Metric (°C)	–	FCP2BBM
		Brass		–	FC2BBM
	3/8"	Nylon		–	FCP3BBM
		Brass		–	FC3BBM

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!



Quickly connect to check molds!

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

Hot Oil Flowmeters

General Description

Smartflow® hot oil flowmeters are durable, vane-operated devices that provide visual indication of flow rate in gallons per minute. The indicator ball is separated from the process by a high temperature gasket and stainless steel plate. A glass window retains the indicator ball. This flowmeter is designed specifically for hot oil circulating loops in industrial processes.

Features and Benefits

- Compact size works well in restricted-space locations
- Rugged construction provides years of dependable service
- 550°F (288°C) temperature rating allows installation into hot oil applications
- Economical for use in many plant locations
- Line mounted for easy installation without extra brackets or hardware.

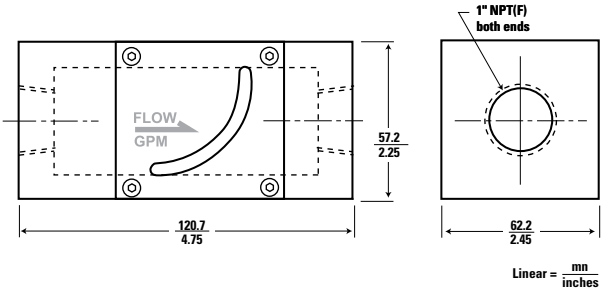
Part Number HF8A40 (40 gal/min)

Wetted Parts and Materials

Inlet Size ..... 1"NPT(F)
Body ..... Carbon steel (black oxide finish)
Viewing Window ..... Glass
Vane ..... Stainless steel
Spring ..... Stainless steel
Pin ..... Stainless steel
Gasket ..... Non-asbestos fiber
Magnet ..... Sintered alnico 8HE

Specifications

Operating Temperature ..... 550°F max.
288°C max.
Pressure ..... 150 PSI max.
Accuracy ..... ±10%



U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

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

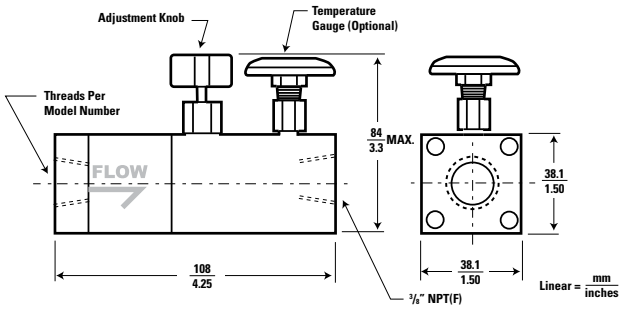
- Compact size works well in restricted-space locations
- Rugged construction gives years of dependable service
- 240°F (115°C) temperature rating allows installation into a wide range of applications
- Optional temperature gauge displays additional process information
- No mounting restrictions ease 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.....240°F max. (115°C max.)
Operating Pressure.....150 PSI max. (10.3 bar max.)
Dial Thermometer.....0° to 250°F (–20° to 120°C)
±2% accuracy (full scale)



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

Magnetic Water Filter

Ferrogard™

General Description

Ferrogard™ Magnetic Water Filters remove contaminant particles smaller than one micron from process cooling fluids and hydraulic systems. This includes the smallest and most abrasive particles that are responsible for the destructive chain reaction of wear.

Injection molds often have small cooling water paths that are easily blocked by rust and machining debris. Cooling lines incorporating bubblers and baffles are particularly susceptible to blockage from rust and corrosion travelling through water lines. A Ferrogard Filter installed in the incoming water path will trap these metallic contaminants before they enter a mold, keeping your internal cooling passages clear during processing.

Used in injection molding cooling water and hydraulic systems, the Ferrogard Filter extends the life of injection molds, manifolds, hoses, pumps, heaters and chillers that are vulnerable to wear caused by fine ferrous debris.

Benefits

- Reduced hot spots in tooling resulting in more consistent molded part quality
- Reduced tool and hydraulic system maintenance
- Less fluid/additive consumption
- Negligible pressure drop
- Decreased wear in pumps, heaters and chillers
- Helps keep bubblers and baffles clear

US Patent 6,743,365
EU Patent 1,076,601

The Process

The Ferrogard Magnetic Water Filter allows process fluid to pass through wide-flow channels with negligible pressure drop. As the fluid flows through the field effect areas, ferrous particles are drawn into the collection zones. These zones hold significantly more contaminant than a conventional filter - without obstructing fluid flow or risking "wash-off." Therefore, the Ferrogard Filter is effective for extended periods without service and is easily replaced as needed.

Wetted Parts and Materials

Connection Sizes(NPT).....¼", ⅜", ½"
End Caps.....Brass
Plates .....Nickel-plated steel
Body.....Polysulfone
O-Ring.....EPDM
Magnets .....C5/C8 ferrite

Specifications

Max Working Pressure.....150 PSI (10 bar)
Max Temperature.....240°F (116°C)
Dimensions .....1.5 × 1.5 × 2.625"
.....38 × 38 × 67mm
Weight .....0.75 pounds (0.34kg)

Design and specifications are subject to change without notice.

Part Numbers:

FG2A
¼" NPT

FG3A
⅜" NPT

FG4A
½" NPT

FGCORE
Replacement Core

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

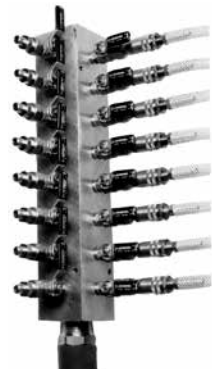
Aluminum Manifolds

Annodized Red or Blue - 1" Supply

MILACRON®

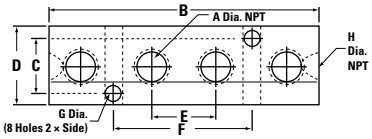
DME
Every step of the way

- Rated to: 1000 PSI - Air
  3000 PSI - Hydraulic
- Heavy wall extruded 6061 aluminum
- No welds! No rust!
- Very low cost
- Custom manifolds available in a few days
- Easy to clean
- In-stock, same-day shipment!



Aluminum manifolds from DME Industrial Supplies offer many advantages over welded steel or pipe manifolds. These manifolds have no welds or seams of any kind and cannot rust. They will offer many years of trouble-free service. The heavy wall extrusion will withstand extreme abuse and the round center hole permits easy cleaning. Custom made manifolds to your dimensions are available in just a few days. Compare the features and price to anything else and you'll understand why manifolds from DME Industrial Supplies are the new standard for molders from coast-to-coast!

Custom Manifolds are available in a few days! Send your drawing to us via fax (888-808-4363) or DME@dme.net.



Part Number	No. of Ports	Dimensions Refer to Drawing Above								Wght. Lbs.
		A	B	C	D	E	F	G	H	
4 Inline										
AM101□	4	¼	7.4	1.75	2.25	1.87	3.8	0.27	1″	3
AM102□	4	⅜	7.4	1.75	2.25	1.87	3.8	0.27	1″	3
AM103□	4	½	8.5	1.75	2.25	2.25	4.5	0.27	1″	3
AM104□	4	¾	8.5	1.75	2.25	2.25	4.5	0.27	1″	3
4 × 4 at 90°										
AM101-90□	8	¼	7.4	1.75	2.25	1.87	3.8	0.27	1″	3
AM102-90□	8	⅜	7.4	1.75	2.25	1.87	3.8	0.27	1″	3
AM103-90□	8	½	8.5	1.75	2.25	2.25	4.5	0.27	1″	3
AM104-90□	8	¾	8.5	1.75	2.25	2.25	4.5	0.27	1″	3
6 Inline										
AM107□	6	¼	11.9	1.75	2.25	1.87	7.5	0.27	1″	5
AM108□	6	⅜	11.9	1.75	2.25	1.87	7.5	0.27	1″	5
AM109□	6	½	13.8	1.75	2.25	2.25	9.1	0.27	1″	5
AM110□	6	¾	13.8	1.75	2.25	2.25	9.1	0.27	1″	5
6 × 6 at 90°										
AM107-90□	12	¼	11.9	1.75	2.25	1.87	7.5	0.27	1″	5
AM108-90□	12	⅜	11.9	1.75	2.25	1.87	7.5	0.27	1″	5
AM109-90□	12	½	13.8	1.75	2.25	2.25	9.1	0.27	1″	5
AM110-90□	12	¾	13.8	1.75	2.25	2.25	9.1	0.27	1″	5
8 Inline										
AM111□	8	¼	14.9	1.75	2.25	1.87	11.3	0.27	1″	7
AM112□	8	⅜	14.9	1.75	2.25	1.87	11.3	0.27	1″	7
AM113□	8	½	17.5	1.75	2.25	2.25	13.5	0.27	1″	7
AM114□	8	¾	17.5	1.75	2.25	2.25	13.5	0.27	1″	7
8 × 8 at 90°										
AM111-90□	16	¼	14.9	1.75	2.25	1.87	11.3	0.27	1″	6
AM112-90□	16	⅜	14.9	1.75	2.25	1.87	11.3	0.27	1″	6
AM113-90□	16	½	17.5	1.75	2.25	2.25	13.5	0.27	1″	6
AM114-90□	16	¾	17.5	1.75	2.25	2.25	13.5	0.27	1″	6

□Remember to add "R" for red or "B" for blue to end of part number.

4 Inline

4 × 4 at 90°

QUANTITY DISCOUNT

Discount applies to current pricing:

11–25	less 7%
26+	less 15%

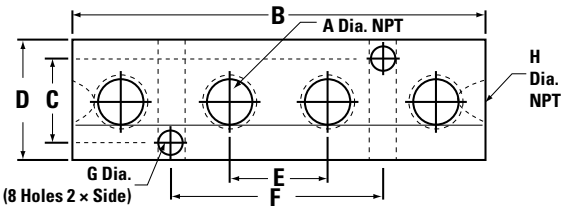
E

MILACRON®

DME
Every step of the way

Aluminum Manifolds

Non-Annodized – 1¼" Supply



Custom Manifolds
Available Upon Request.
Affordable Price!
Quick Turnround!
Call Today!!

Part Number	No. of Ports	Dimensions Refer to Drawing Above								Wght. Lbs.
		A	B	C	D	E	F	G	H	
4 Inline										
AM105	4	½	8.5	2.2	2.75	2.25	5.4	.265	1¼"	5.00
AM106	4	¾	8.5	2.2	2.75	2.25	5.4	.265	1¼"	5.00
4 × 4 at 90°										
AM105-90	8	½	8.5	2.2	2.75	2.25	5.4	.265	1¼"	5.00
AM106-90	8	¾	8.5	2.2	2.75	2.25	5.4	.265	1¼"	5.00
6 Inline										
AM109-3	6	½	13.8	2.2	2.75	2.25	5.4	.265	1¼"	8.00
AM110-3	6	¾	13.8	2.2	2.75	2.25	5.4	.265	1¼"	8.00
6 × 6 at 90°										
AM109-93	12	½	13.8	2.2	2.75	2.25	5.4	.265	1¼"	8.00
AM110-93	12	¾	13.8	2.2	2.75	2.25	5.4	.265	1¼"	8.00
8 Inline										
AM115	8	½	17.5	2.2	2.75	2.25	14.4	.265	1¼"	10.00
AM116	8	¾	17.5	2.2	2.75	2.25	14.4	.265	1¼"	10.00
8 × 8 at 90°										
AM115-90	16	½	17.5	2.2	2.75	2.25	14.4	.265	1¼"	10.00
AM116-90	16	¾	17.5	2.2	2.75	2.25	14.4	.265	1¼"	10.00

QUANTITY DISCOUNT

Discount applies to current pricing:

11–25	**less 7%**
26+	**less 15%**

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Aluminum Manifolds

MILACRON®

DME
Every step of the way

- 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!

QUANTITY DISCOUNT

Discount applies to current pricing:

5–24	less 5%
25+	less 10%

Part Number	No. Ports	NPT Port Size	Length	Inlet Between NPT	Inlet Between 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"

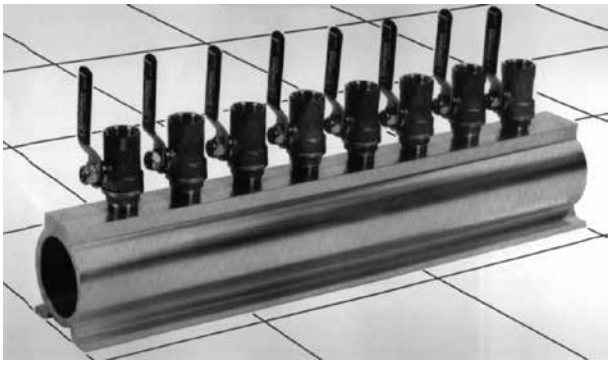
□Add "R" for red or "B" for blue.
*Indicates non-stock item.

E

Aluminum Manifolds

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

Made in the USA!

Huge 2” Supply

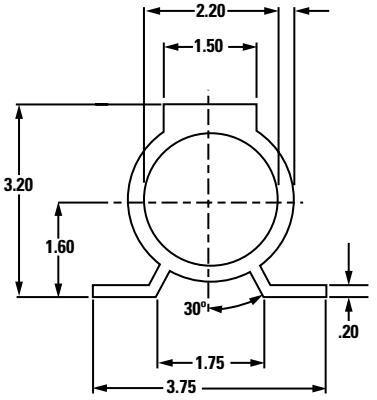
Options include:

- ½” ball valves
- ½” quick change plugs
- ½” hose barbs
- Flowmeters
- Thermometers
- 1½” or 2” supply/hose barb fittings
- Custom modifications

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.

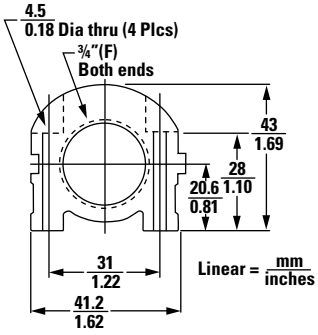
* Specify red or blue manifold by adding **-R** or **-B** to part number.



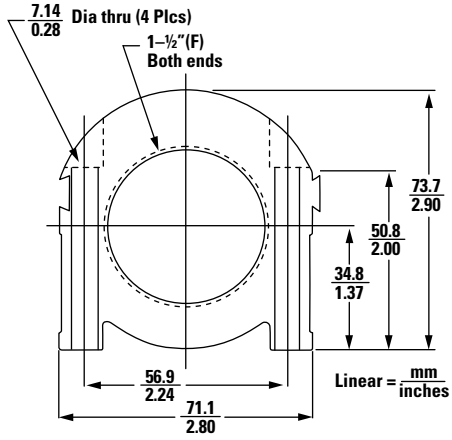
Dimensions in inches

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

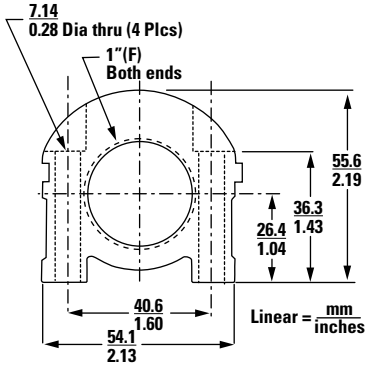
Standard Aluminum Manifold Dimensions



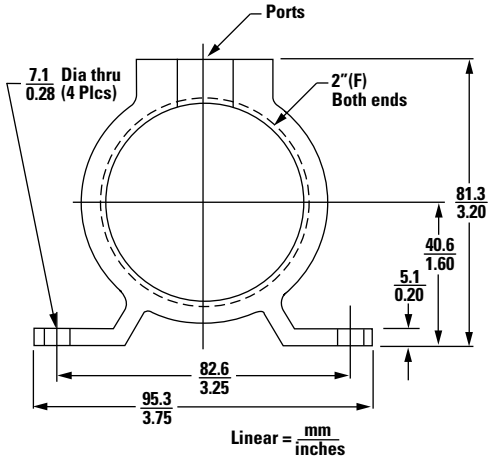
3/4" Manifold



1–½" Manifold



1" Manifold

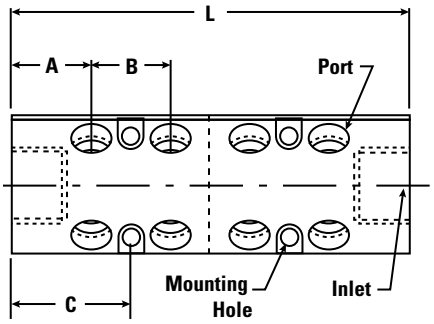


2" Manifold

E

SMARTFLOW®

DUOFLOW™ Aluminum Manifolds



See table below for dimensions.

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

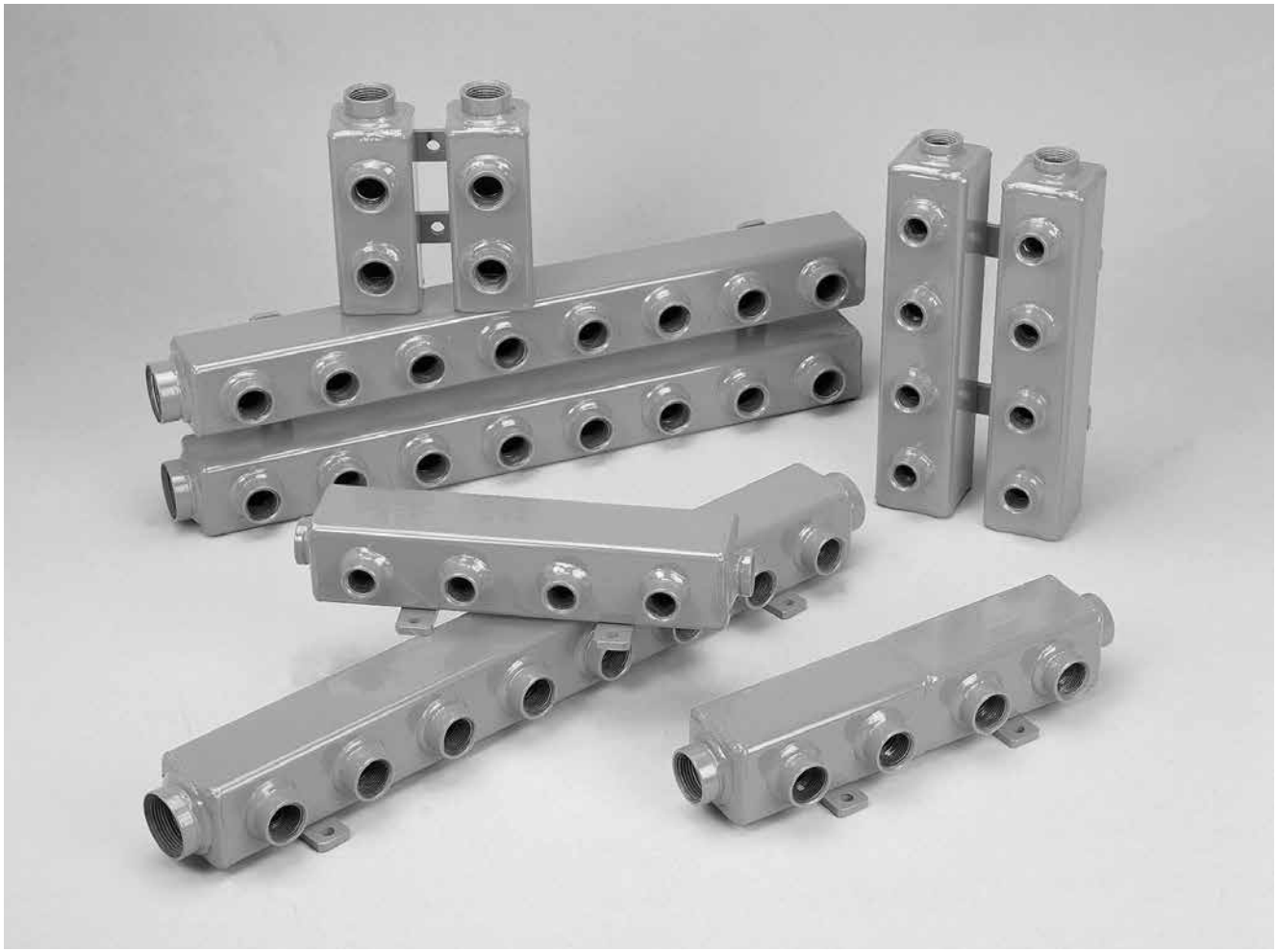
Custom manifolds are available on request!

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				7.0"/178mm
6SDA16-2-13AYZ			16	8				9.0"/229mm
8SDA8-3-13AYZ	1"NPT	⅜"NPT	8	4	1.25" 32mm	1.25" 32mm	1.88" 47.6mm	6.3"/159mm
8SDA12-3-13AYZ			12	6				8.8"/222mm
8SDA16-3-13AYZ			16	8				11.3"/286mm
12SDA8-4-13AYZ	1-½"NPT	½"NPT	8	4	1.75" 44.5mm	1.5" 38mm	2.5" 63.5mm	8.0"/203mm
12SDA12-4-13AYZ			12	6				11.0"/279mm
12SDA16-4-13AYZ			16	8				14.0"/356mm

Steel Manifolds

Painted and Stainless



E

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

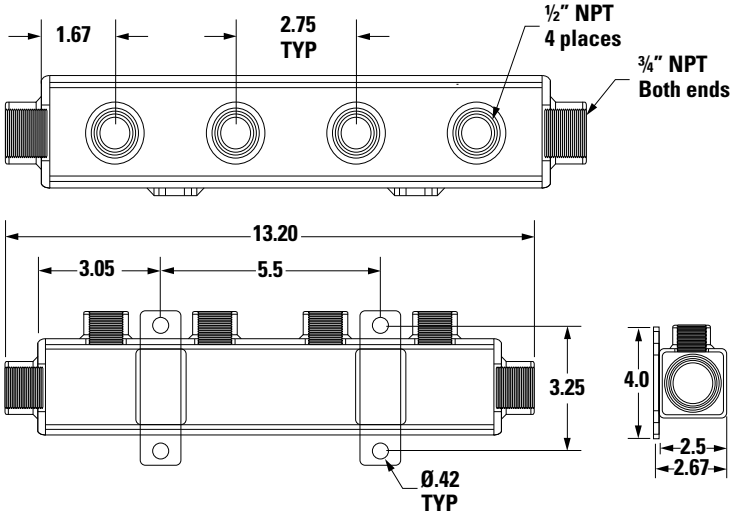
All the benefits of our painted steel manifolds – better water distribution for increased cycles, reduced number of hoses, tidier hose arrangements – and a big plus: NO RUST OR CORROSION. If your plant has poor water quality, the extra investment in stainless steel pays off fast in lower maintenance 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

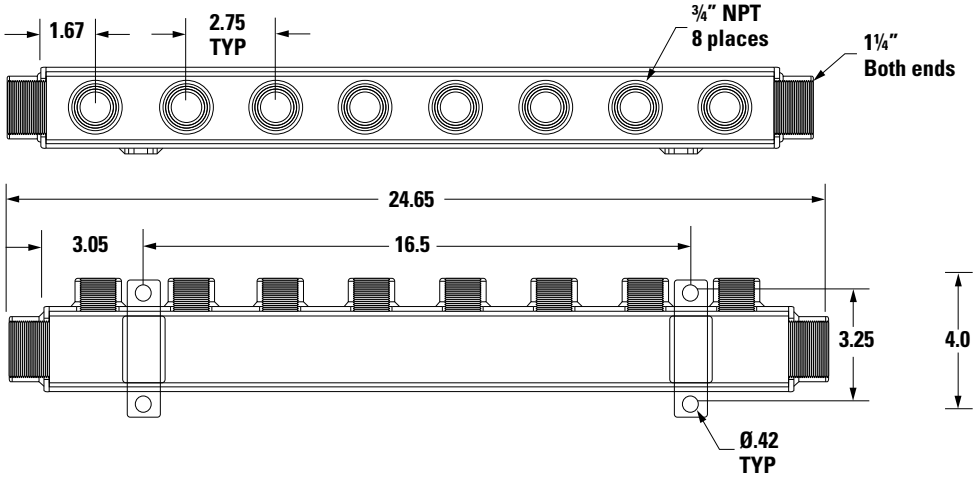
Features

- 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 300º F



Steel Type	Inlets		Outlets		Dimensions			Part Number
	NPT	Qty.	NPT	Qty.	L	W	H	
Painted	¾"	2	½"	4	12¾"	2½"	2½"	CWM4
Stainless	¾"	2	½"	4	12¾"	2½"	2½"	CWM4CR

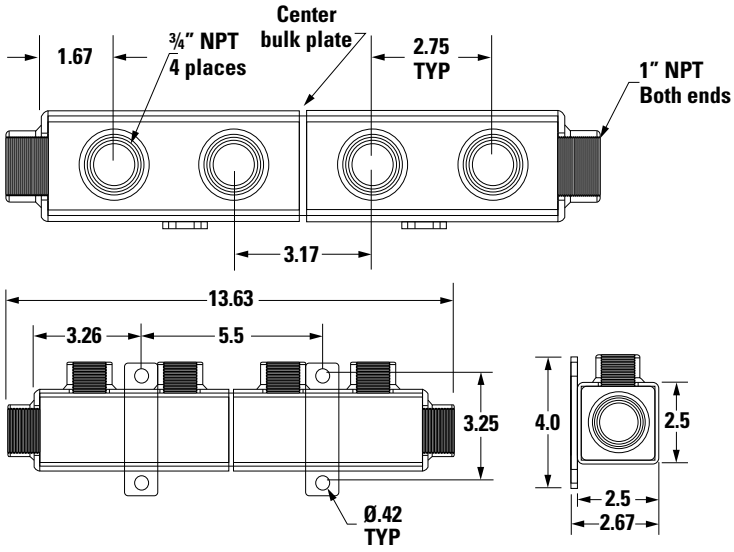
Steel Type	Inlets		Outlets		Dimensions			Part Number
	NPT	Qty.	NPT	Qty.	L	W	H	
Painted	1¼"	2	¾"	8	24¼"	2½"	2½"	CWM8A
Stainless	1¼"	2	¾"	8	24¼"	2½"	2½"	CWM8ACR



U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

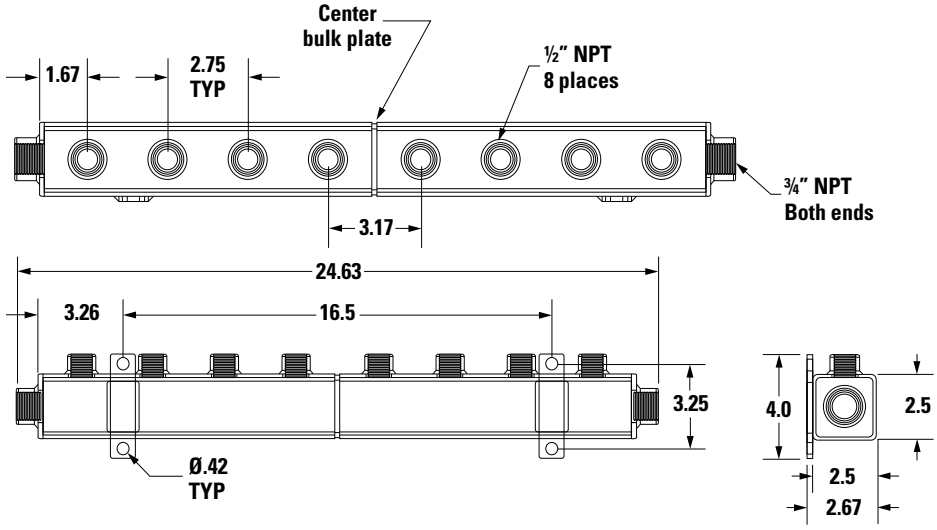
Features

- 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		Outlets		Dimensions			Part Number
	NPT	Qty.	NPT	Qty.	L	W	H	
Painted	1"	2	¾"	4	13½"	2½"	2½"	**CWML22**
Stainless	1"	2	¾"	4	13½"	2½"	2½"	**CWML22CR**

Steel Type	Inlets		Outlets		Dimensions			Part Number
	NPT	Qty.	NPT	Qty.	L	W	H	
Painted	¾"	2	½"	8	24"	2½"	2½"	**CWM44**
Stainless	¾"	2	½"	8	24"	2½"	2½"	**CWM44CR**



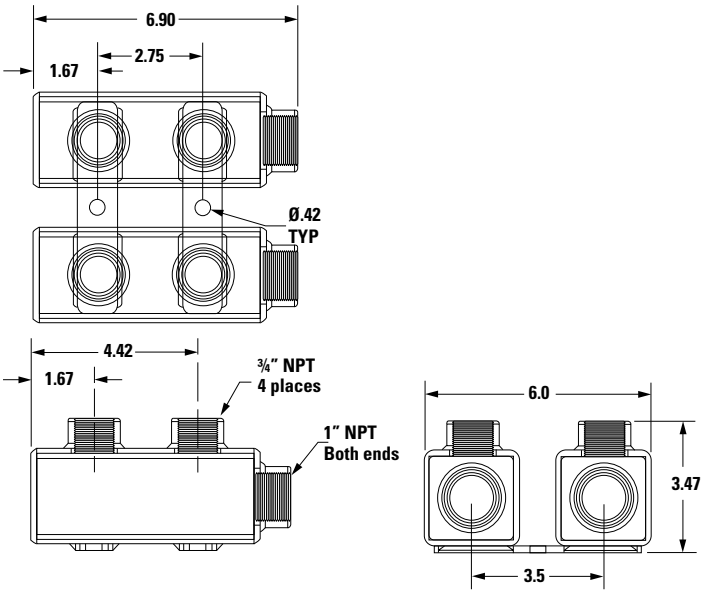
E

Steel Manifolds

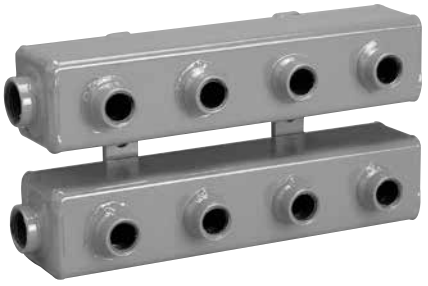
Painted and Stainless - STACKED

Features

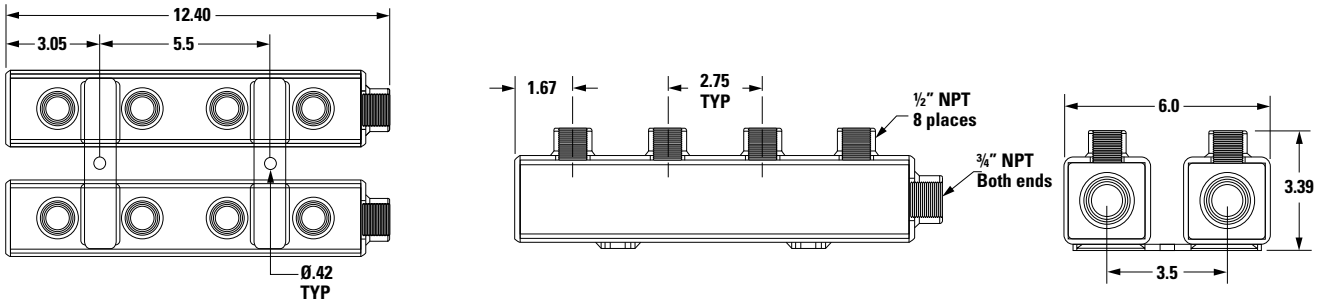
- Painted manifolds are manufactured from heavy-gauge mild steel
- Threaded couplings are welded in place
- Pre-drilled mounting brackets for easy mounting
- Pressure rated to 120 PSI
- Temperature rated to 300º F



Steel Type	Inlets		Outlets		Dimensions			Part Number
	NPT	Qty.	NPT	Qty.	L	W	H	
Painted	1″	2	¾″	4	7″	6″	2½″	**CWML2S2**
Stainless	1″	2	¾″	4	7″	6″	2½″	**CWML2S2CR**



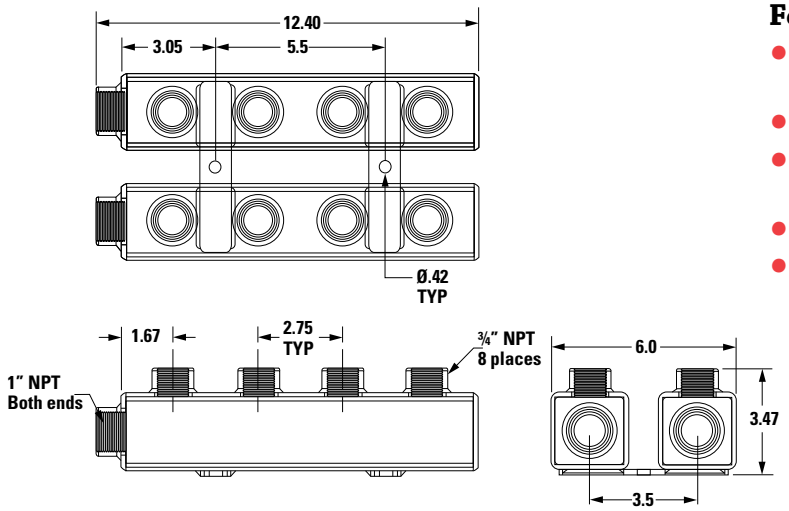
Steel Type	Inlets		Outlets		Dimensions			Part Number
	NPT	Qty.	NPT	Qty.	L	W	H	
Painted	¾″	2	½″	8	12¼″	6″	2½″	**CWM4S4**
Stainless	¾″	2	½″	8	12¼″	6″	2½″	**CWM4S4CR**



U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Steel Manifolds

Painted and Stainless - STACKED

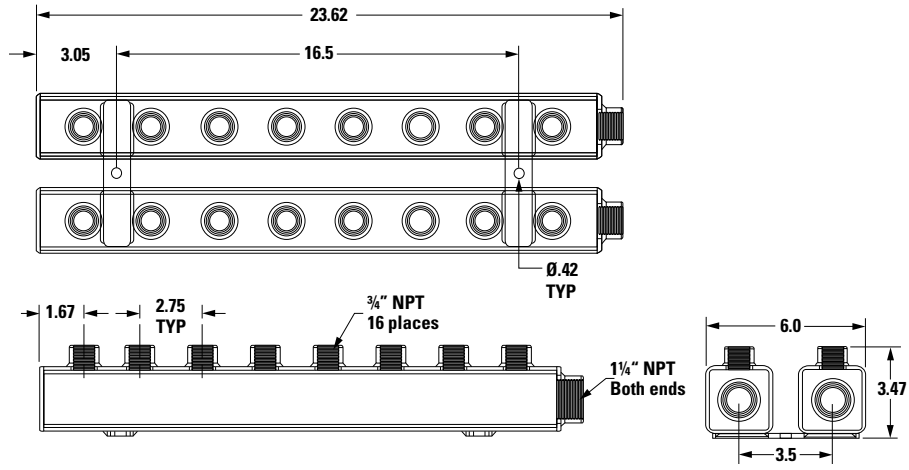


Features

- 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 300°F

Steel Type	Inlets		Outlets		Dimensions			Part Number
	NPT	Qty.	NPT	Qty.	L	W	H	
Painted	1″	2	¾″	8	12½″	6″	2½″	**CWML4S4**
Stainless	1″	2	¾″	8	12½″	6″	2½″	**CWML4S4CR**

Steel Type	Inlets		Outlets		Dimensions			Part Number
	NPT	Qty.	NPT	Qty.	L	W	H	
Painted	1¼″	2	¾″	16	23½″	6″	2½″	**CWM8S8A**
Stainless	1¼″	2	¾″	16	23½″	6″	2½″	**CWM8S8ACR**



E

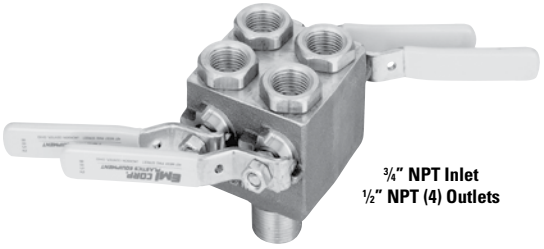
Bronze Valved Manifolds

Cluster

- Rustproof
- No leaks
- Rated at 120 PSI (water or coolant)

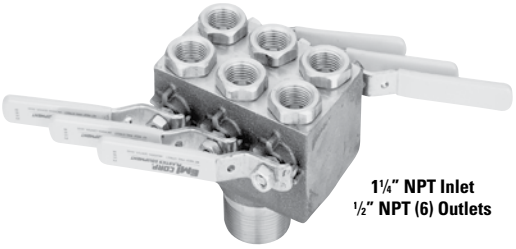
1½" NPT Inlet
½" NPT (8) Outlets

Model# VMC082M24



¾" NPT Inlet
½" NPT (4) Outlets

Model# VMC042M12



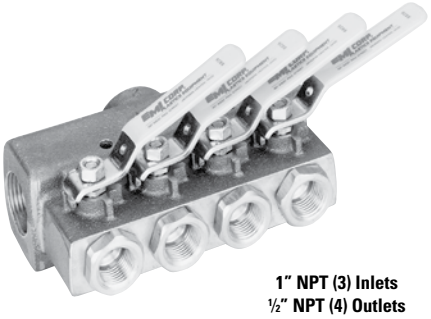
1¼" NPT Inlet
½" NPT (6) Outlets

Model# VMC062M20

Bronze Valved Manifolds

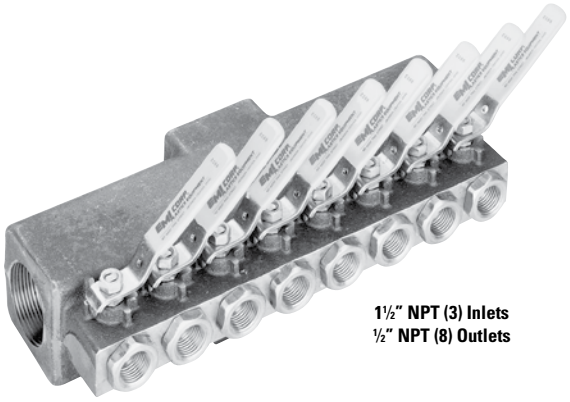
Inline

- Rustproof
- No leaks
- Rated at 120 PSI (water or coolant)



1" NPT (3) Inlets
½" NPT (4) Outlets

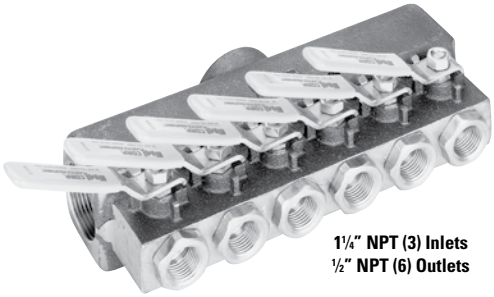
Model# VML041F16



1½" NPT (3) Inlets
½" NPT (8) Outlets

Model# VML082F24

Repair Kit
Includes ball, handle, nut, packing nut, stem, packing gland, thrust washer, 2 ball seats and adaptor.
Part Number B6000Z76

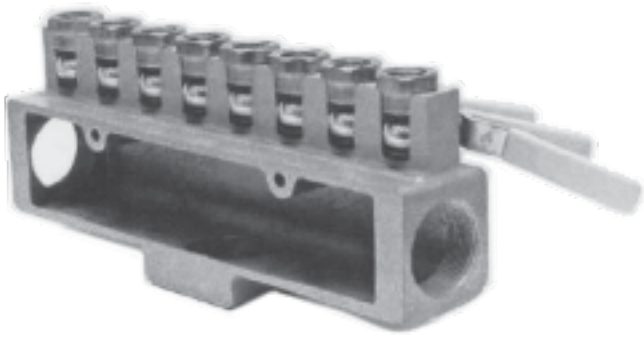


1¼" NPT (3) Inlets
½" NPT (6) Outlets

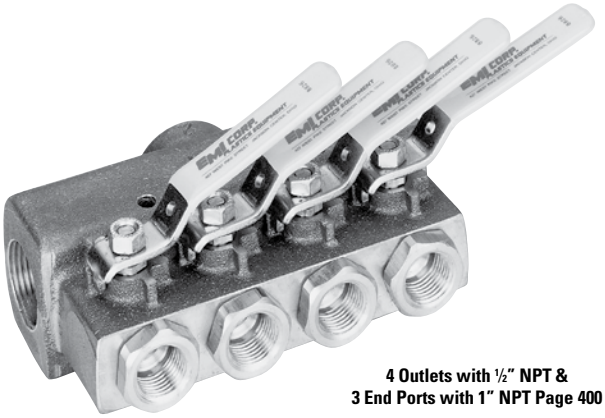
Model# VML062F20

Solid Bronze Manifolds

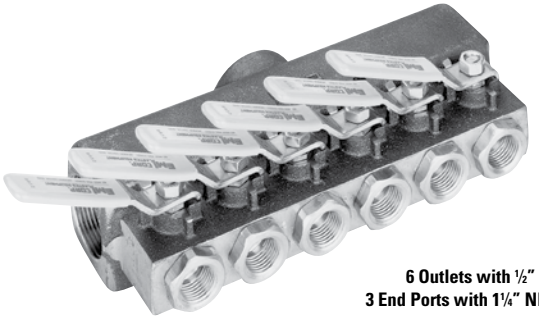
All units in stock for immediate shipment!
EMI's Solid Bronze Inline Manifolds are available from stock. Solid Bronze Cluster Manifolds are 100% tested to 120 PSI. Available in either a "cluster" or "inline" style, they include brass, self-cleaning, full flow ball valves with reinforced PTFE® seats which eliminate the need for lubrication. Cluster-style valves help fit hose connections within the smallest space possible. Easily field serviceable.



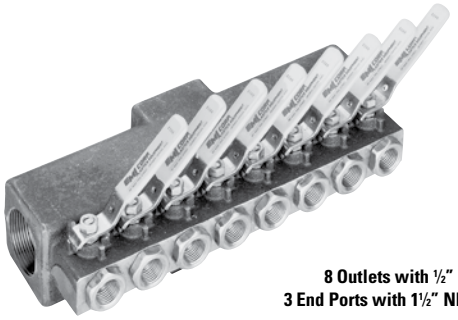
Inline Models



4 Outlets with ½" NPT &
3 End Ports with 1" NPT Page 400



6 Outlets with ½" NPT &
3 End Ports with 1¼" NPT Page 401



8 Outlets with ½" NPT &
3 End Ports with 1½" NPT Page 402

Repair Kits
All *EMI* solid bronze water manifolds are field repairable. The repair kit includes handle, nut, packing nut, stem, packing gland, thrust washer, two ball seats and adaptor.
Part Number B6000Z76

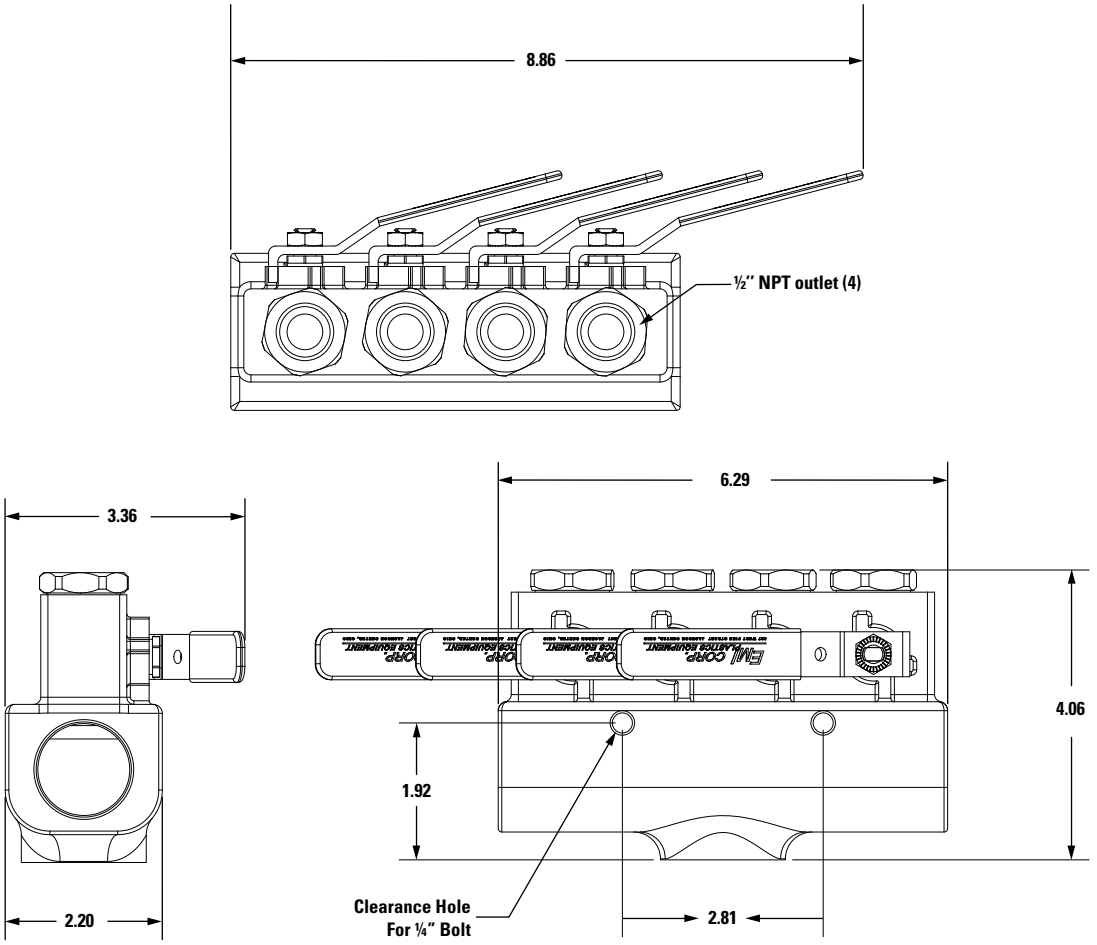
Bronze Water Manifolds

4 Port, Inline Model with 1" NPT End Ports

Features

- Constructed from solid cast bronze for dependable corrosion-free and rust-free operation
- Perfect when water quality is poor
- Pressure rated to 120 PSI
- Temperature rated to 180°F
- Brass ball values are self-cleaning for low maintenance
- Valves are reinforced with PTFE® seats for lubrication-free operation
- Easily field serviceable

Part Number	Description
VML041F16	1" NPT Inlets (3), ½" NPT Outlets (4)



U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

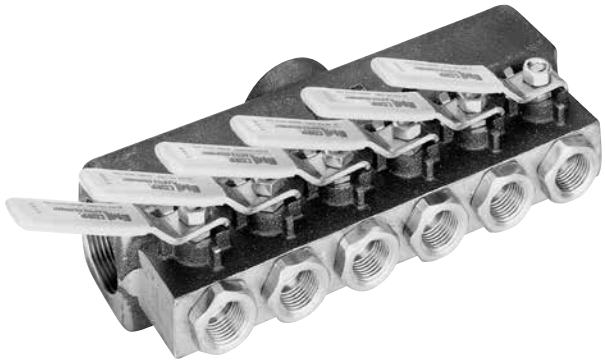
Bronze Water Manifolds

6 Port, Inline Model with 1¼" End Ports

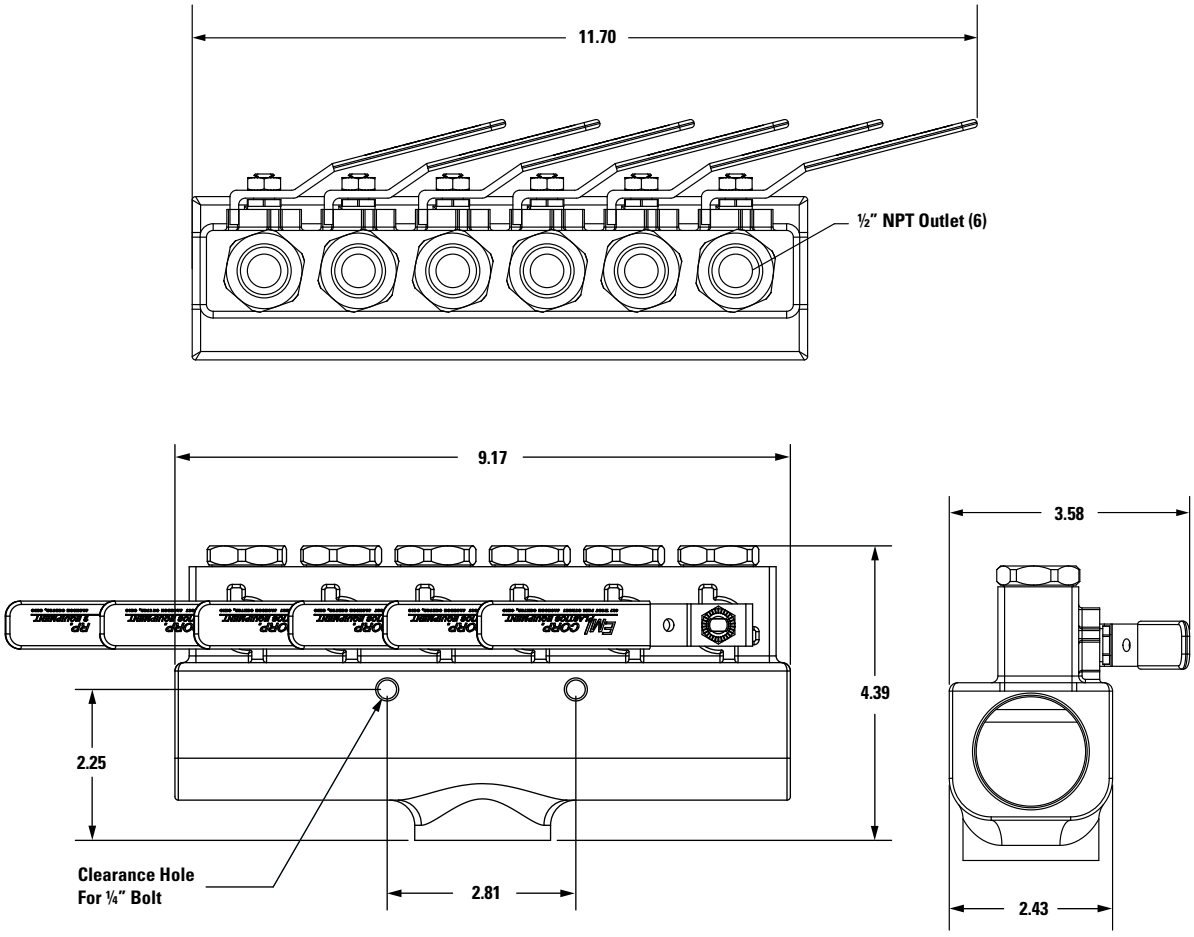
MILACRON®
DME
Every step of the way

Features

- Constructed from solid cast bronze for dependable corrosion-free and rust-free operation
- Perfect when water quality is poor
- Pressure rated to 120 PSI
- Temperature rated to 180°F
- Brass ball values are self-cleaning for low maintenance
- Valves are reinforced with PTFE® seats for lubrication-free operation
- Easily field serviceable



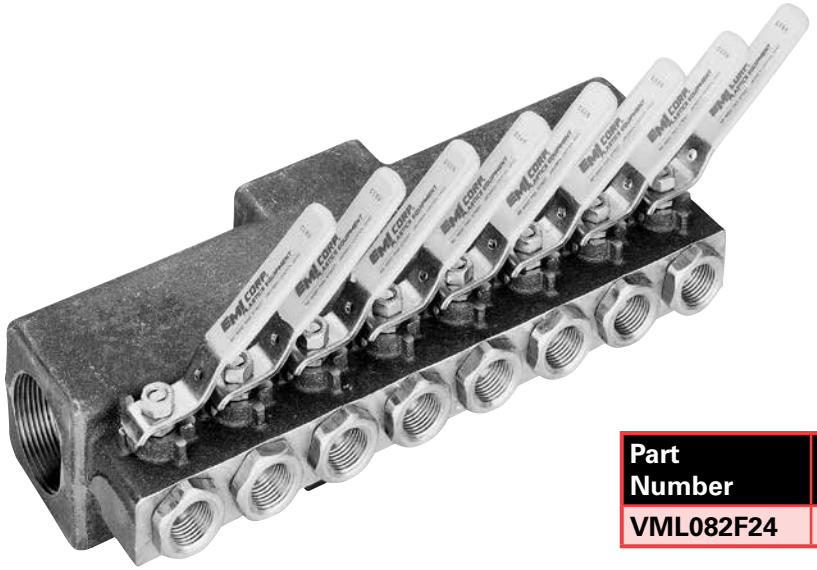
Part Number	Description
VML062F20	1¼" NPT Inlets (3), ½" NPT Outlets (6)



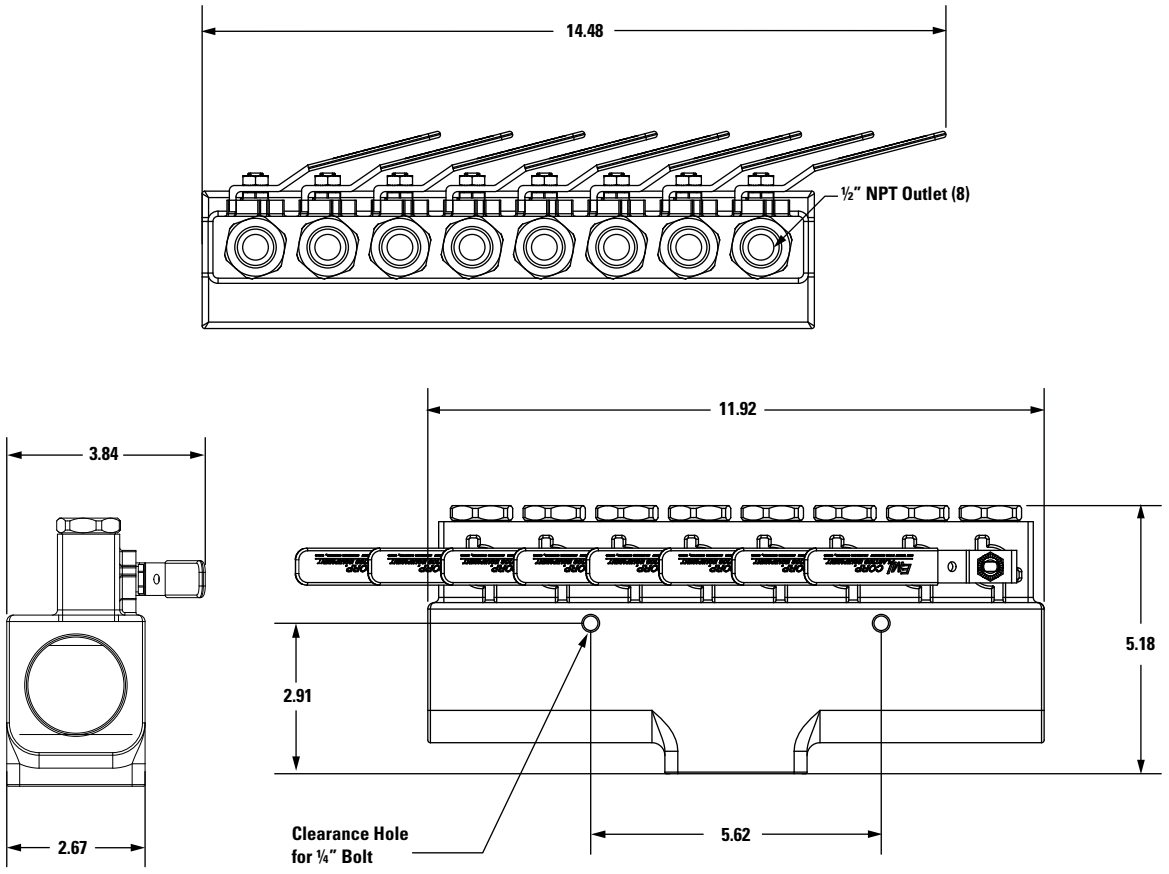
E

Bronze Water Manifolds

8 Port, Inline Model with 1½" End Ports



Part Number	Description
VML082F24	1½" NPT Inlets (3), ½" NPT Outlets (8)



U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Solid Bronze Manifolds

MILACRON®
DME
Every step of the way

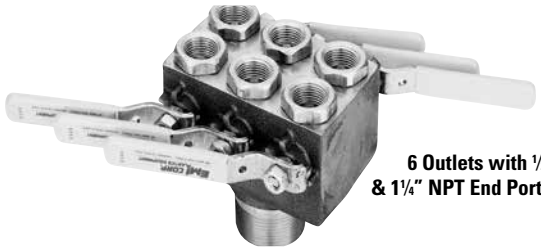
All units in stock for immediate shipment!

EMI Solid Bronze Cluster Manifolds are available from stock. For molders who prefer to have hoses inline and have the room to arrange them this way, these models provide the maximum number of connections in a compact, easily mounted configuration. Same quality brass construction and self-cleaning ball valves as the cluster models. Easily field serviceable.

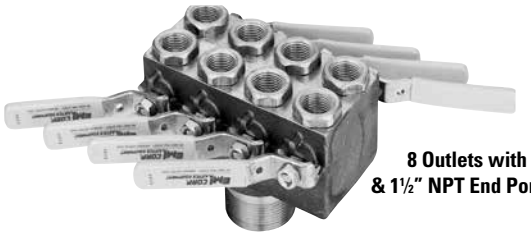
Cluster Models

4 Outlets with ½" NPT & ¾" NPT End Ports

4 Outlets with ½" NPT & 1" NPT End Ports Page 404



6 Outlets with ½" NPT & 1¼" NPT End Ports Page 405



8 Outlets with ½" NPT & 1½" NPT End Ports Page 406

E

Repair Kits

All *EMI* solid bronze water manifolds are field repairable. The repair kit includes handle, nut, packing nut, stem, packing gland, thrust washer, two ball seats and adaptor.

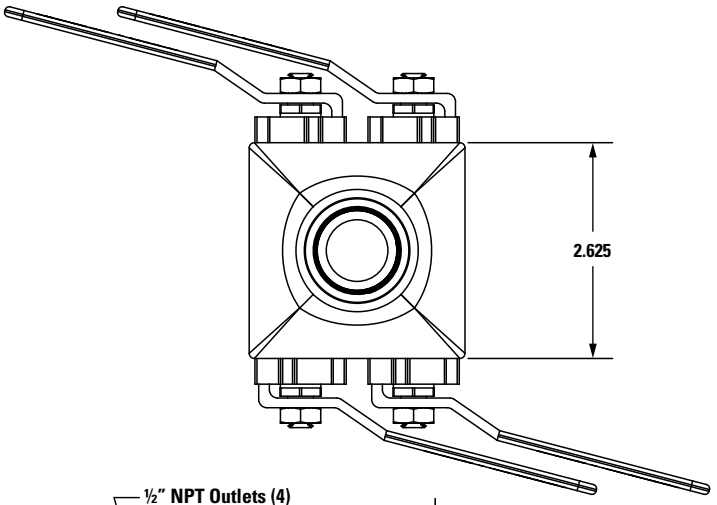
Part Number B6000Z76

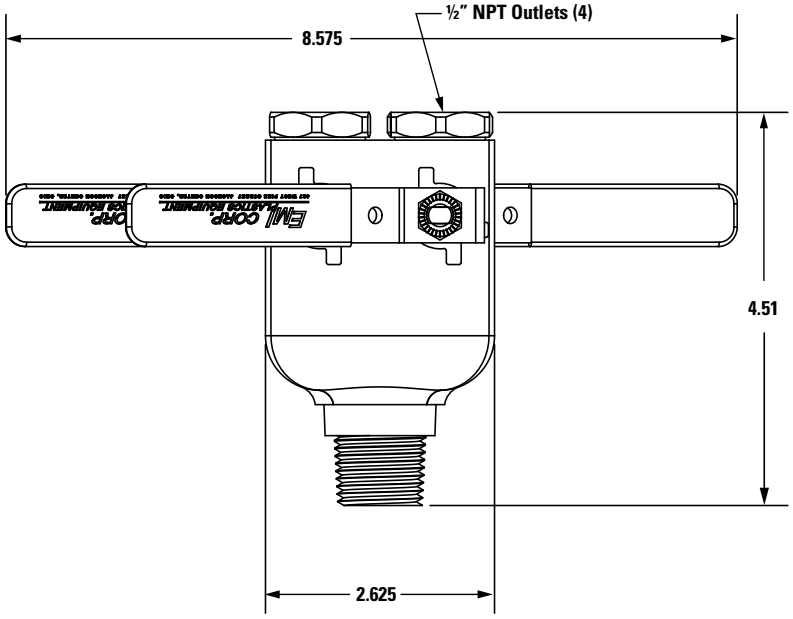
Bronze Water Manifolds

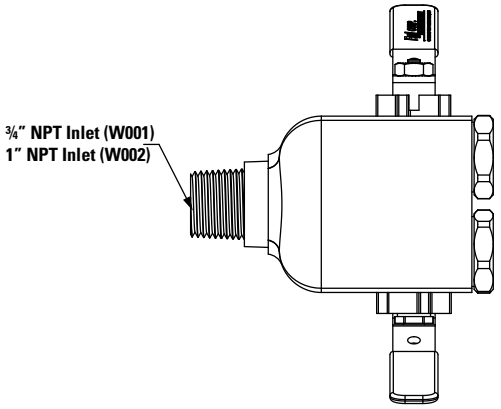
4 Outlet, Cluster Model

Quick# W001

Part Number	Description
VMC042M12	¾" NPT End Ports, ½" NPT Outlets (4)







Bronze Water Manifolds

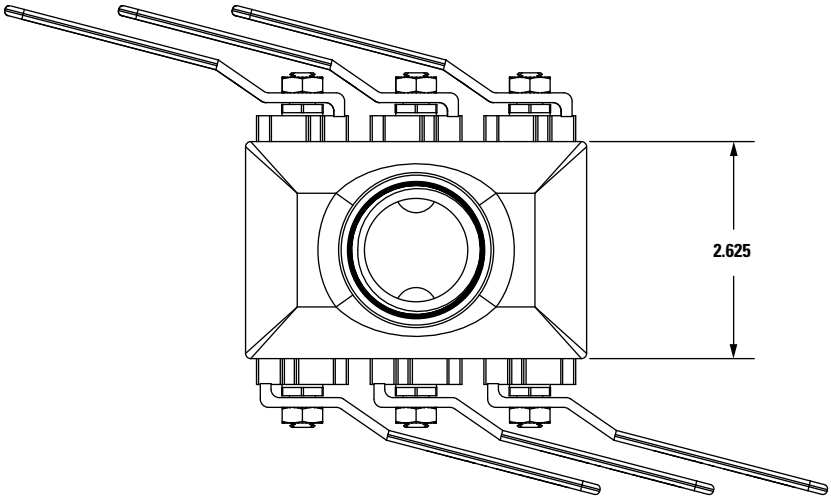
6 Outlet, Cluster Model

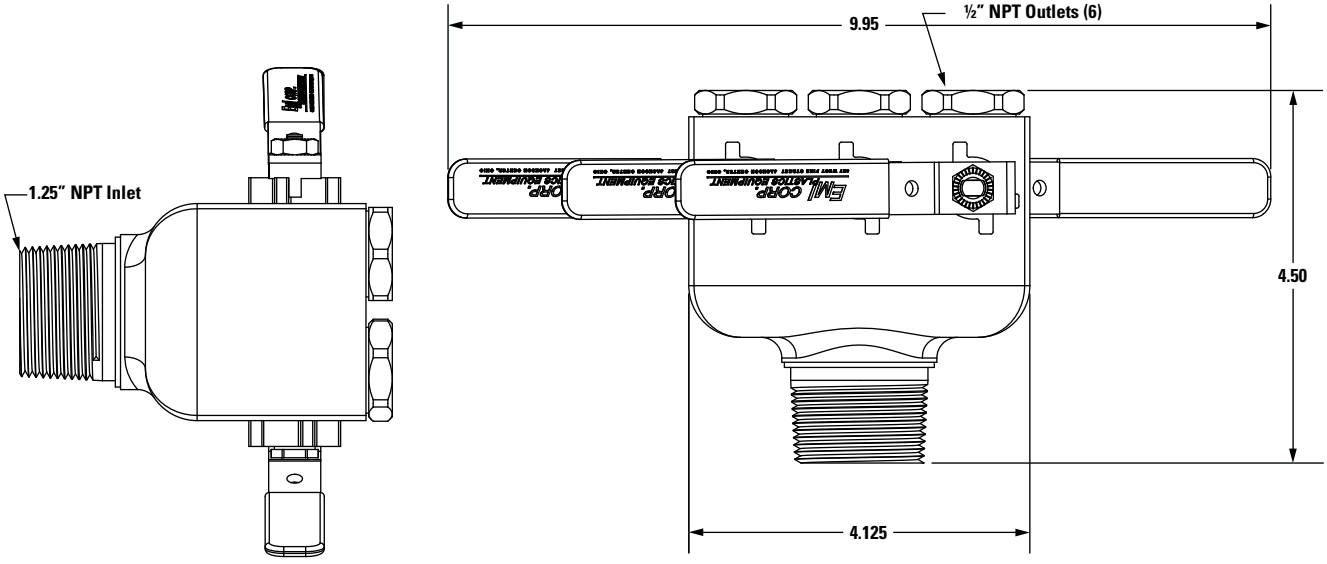
MILACRON®
DME
Every step of the way

Features

- Constructed from solid cast bronze for dependable corrosion-free and rust-free operation
- Perfect when water quality is poor
- Pressure rated to 120 PSI
- Temperature rated to 180°F
- Brass ball values are self-cleaning for low maintenance
- Valves are reinforced with PTFE® seats for lubrication-free operation
- Easily field serviceable

Part Number	Description
VMC062M20	1¼" NPT End Ports, ½" NPT Outlets (6)

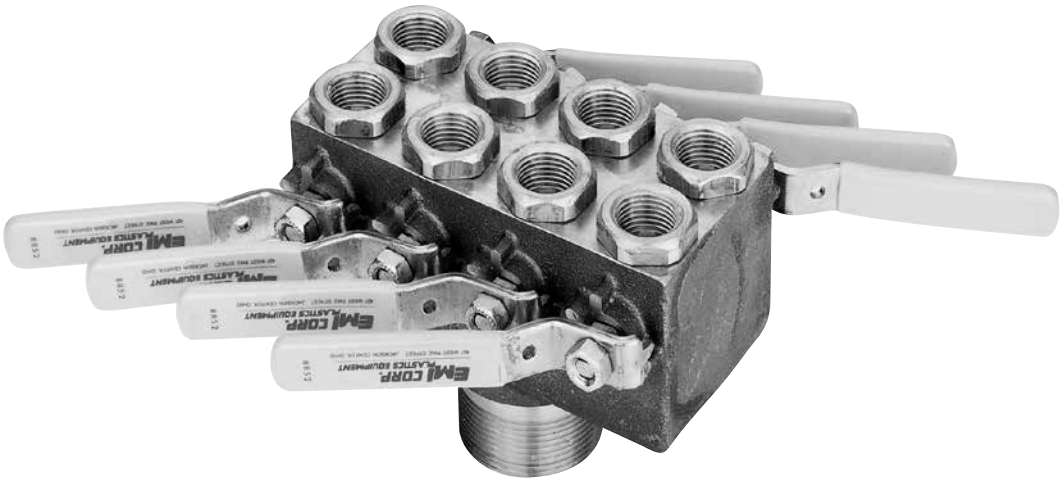




E

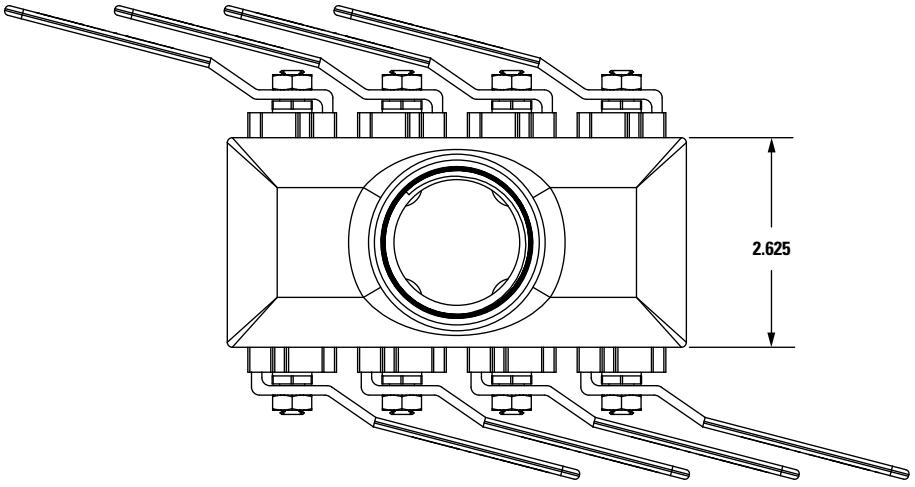
Bronze Water Manifolds

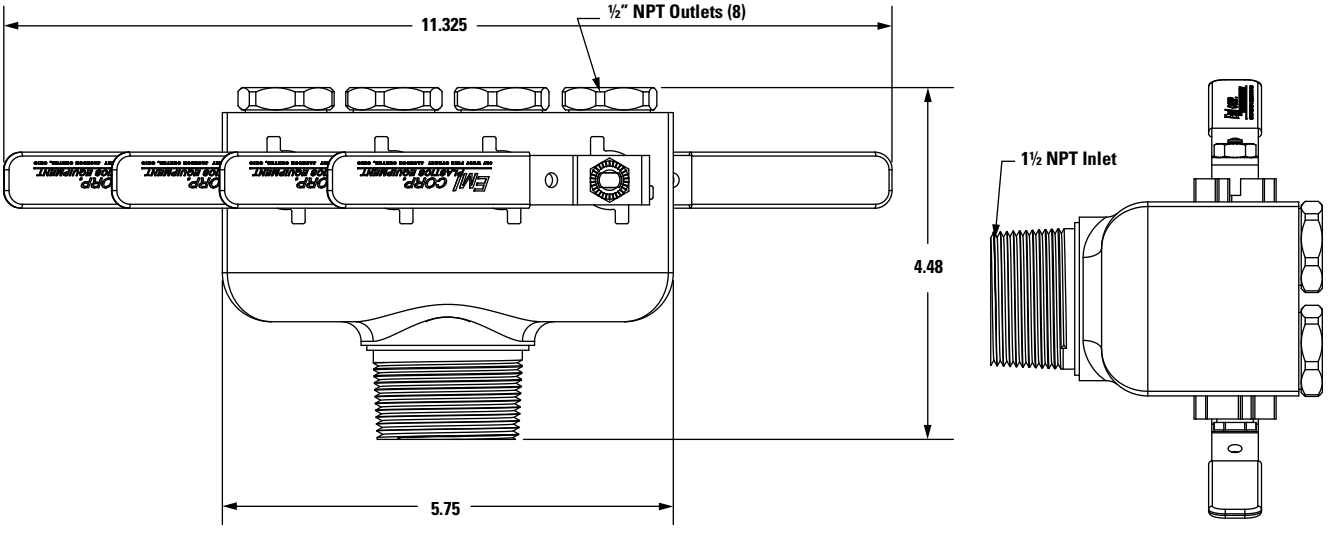
8 Outlet, Cluster Model



Water Flow Products

Part Number	Description
VMC082M24	1½" NPT End Ports, ½" NPT Outlets (8)





U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

PTFE Thread Sealing Tape

MILACRON®

DME
Every step of the way

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″

QUANTITY DISCOUNT

Discount applies to current pricing:

50–99	less 4%
100+	less 12%

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

QUANTITY DISCOUNT

Discount applies to current pricing:

2–4	less 4%
5+	less 6%

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!

QUANTITY DISCOUNT

Discount applies to current pricing:

12–23	less 3%
24+	less 5%

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

Part Number	VALVE SIZE
BBV2MFT	⅛″
BBV4MFT	¼″
BBV6MFT	⅜″
BBV8MFT	½″

T-Handle is 1⅝″ wide for ⅛″ & ¼″; 2½″ for ⅜″ & ½″.

QUANTITY DISCOUNT

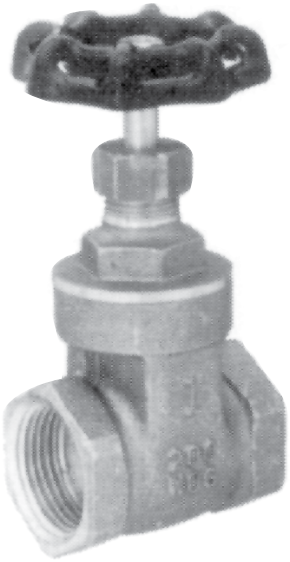
Discount applies to current pricing:

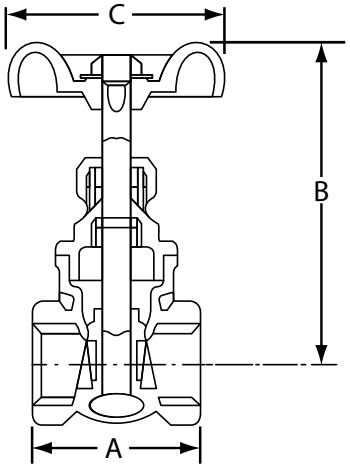
50+ less 5%

See drawing of BBV-MF on opposite page for dimensions.

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





QUANTITY DISCOUNT

Discount applies to current pricing:

50+ less 5%

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 × 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

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

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

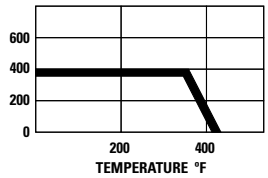
*BBV4, BBV6 and BBV8 full port; all others regular port.
Other sizes available in full port; call for stock status and pricing.
CV Rating is the gallons of water per minute passed thru the valve with a 1 PSI pressure drop.

QUANTITY DISCOUNT

Discount applies to current pricing:

50+ less 5%

VALVE SEAT RATING



E

Forged Brass Ball Valves

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

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

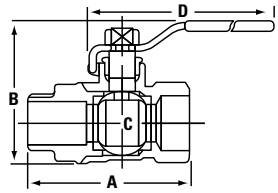
Pressure Rating	
⅛″–¼″	400 lbs. W.O.G. Non-shock
⅜″–¾″	600 lbs. W.O.G. Non-shock
1″	500 lbs. W.O.G. Non-shock

All sizes rated at 150 W.S.P.

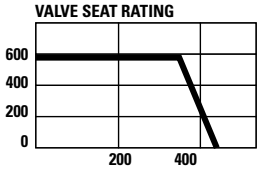
QUANTITY DISCOUNT

Discount applies to current pricing:

50+ less 5%



VALVE SEAT RATING

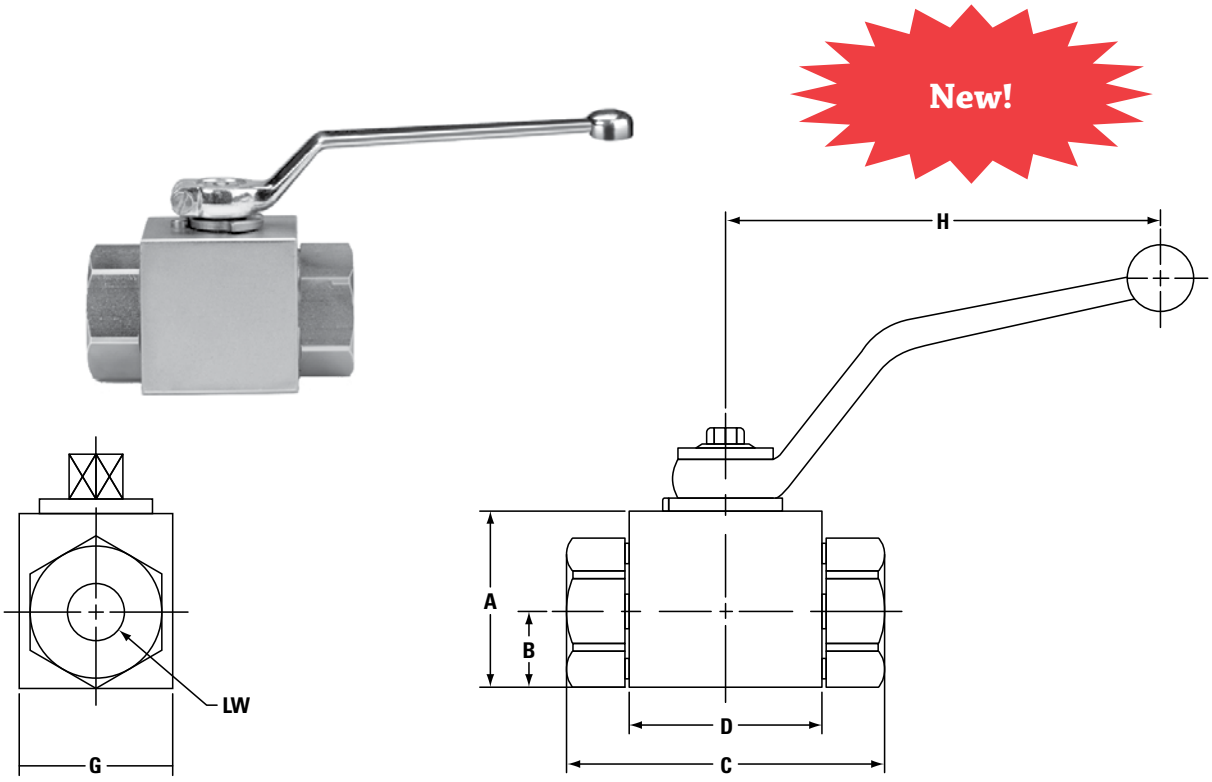


Part Number	Ref. No.	Thd. Size	(Mix-N-Match) Rating	A	B	C	D
BBV2MF	–	⅛″	7.2	1.8	1.41	.29	1.72
BBV4MF	BBV25M	¼″	7.7	1.8	1.41	.32	1.65
BBV6MF	BBV37M	⅜″	10.8	2.15	1.7	.39	3.06
BBV8MF	BBV50M	½″	16.7	2.5	1.86	.50	3.06
BBV12MF	BBV75M	¾″	30.3	2.9	2.5	.69	3.81
BBV16MF	BBV100M	1″	59.5	3.33	2.78	.89	3.81

CV Rating is the gallons of water per minute passed thru the valve with a 1 PSI pressure drop.

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



	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

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Hi-Pressure Ball Valve

MILACRON®

DME
Every step of the way

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**

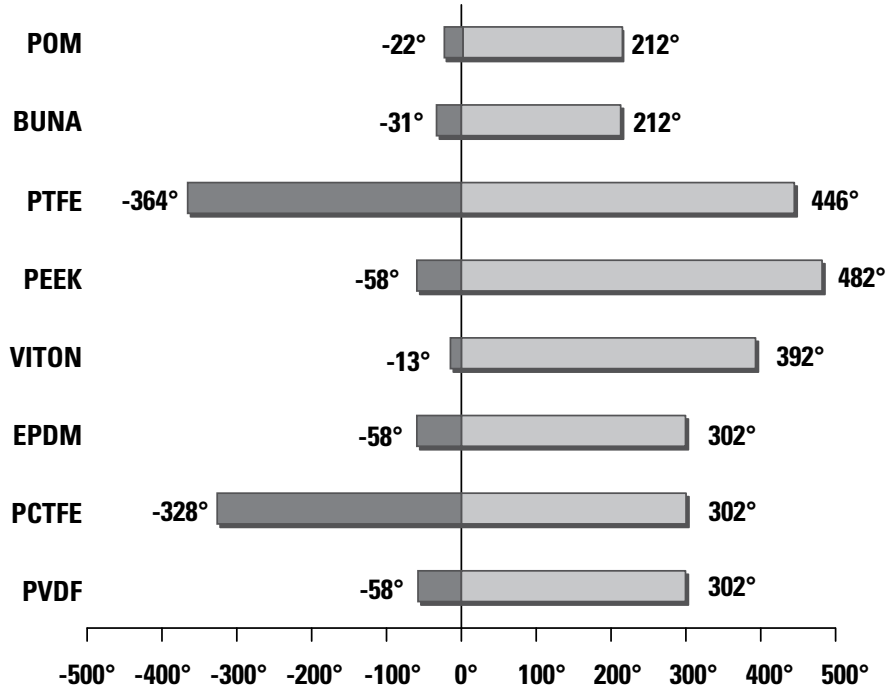
D	POM-Standard
T	PTFE

• **Ball & Stem Material**

1	Carbon Steel
2	316 Stainless Steel

New!

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

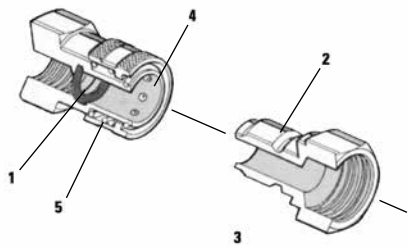


E

High Flow Couplers

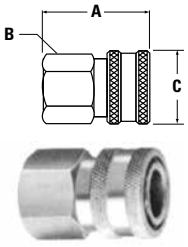
ST Series

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
1/8	1/8–27	BST1	SST1
1/4	1/4–18	BST2	SST2
3/8	3/8–18	BST3	SST3
1/2	1/2–14	BST4	SST4
3/4	3/4–14	BST6	SST6
1"	1–1 11/16	BST8	SST8
1 1/4"	1 1/4"–11	BST10	
1 1/2"	1 1/2"–11	BST12	

See table below for dimensions.



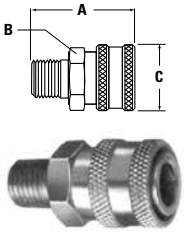
QUANTITY DISCOUNT

Discount applies to current pricing:

26+ less 4%

Male Pipe Coupler		Brass	Stainless Steel
Body Size	Thd Size Fem. NPT	Part Number	Part Number
1/8	1/8–27	BST1M	SST1M
1/4	1/4–18	BST2M	SST2M
3/8	3/8–18	BST3M	SST3M
1/2	1/2–14	BST4M	SST4M
3/4	3/4–14	BST6M	SST6M
1"	1–11	BST8M	SST8M

See table below for dimensions.



Dimensions						
	Female Pipe			Male Pipe		
	A	B	C	A	B	C
1/8	1.00	.56	.69	1.06	.56	.69
1/4	1.47	.81	.94	1.69	.81	.81
3/8	1.59	1.00	1.16	1.75	1.00	1.16
1/2	1.91	1.13	1.30	1.94	1.13	1.30
3/4	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
1 1/4	2.44	2.00	2.51			
1 1/2	2.88	2.50	3.00			

O-Rings for ST Couplers	
Part Number	Coupler Size
ST1OR	1/8
ST2OR	1/4
ST3OR	3/8
ST4OR	1/2
ST6OR	3/4
ST8OR	1
ST10OR	1 1/4
ST12OR	1 1/2

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

High Flow Nipples

ST Series

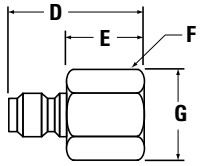
MILACRON®

DME Every step of the way

Pressure/Temp Ratings			
Size	Brass	Steel	Stainless
⅛″	2500	2600	4200
¼″	5200	5500	6700
⅜″	2700	3500	5500
½″	2200	2700	3000
¾″	1700	2700	3000
1″	1200	2000	1700
1¼″	1700	Ratings Are	
1½″	1400	In PSI	

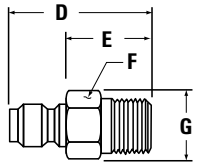
–40° to +250° F - Temp Range

- 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
⅛	⅛–27	BSTN1	STN1	SSTN1
¼	¼–18	BSTN2	STN2	SSTN2
⅜	⅜–18	BSTN3	STN3	SSTN3
½	½–14	BSTN4	STN4	SSTN4
¾	¾–14	BSTN6	STN6	SSTN6
1″	1–11	BSTN8	STN8	SSTN8
1¼″	1¼″–11½	BSTN10		
1½″	1½″–11½	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
⅛	⅛–27	BSTN1M	STN1M	SSTN1M
¼	¼–18	BSTN2M	STN2M	SSTN2M
⅜	⅜–18	BSTN3M	STN3M	SSTN3M
½	½–14	BSTN4M	STN4M	SSTN4M
¾	¾–14	BSTN6M	STN6M	SSTN6M
1″	1–11	BSTN8M	STN8M	SSTN8M

See table below for dimensions.

QUANTITY DISCOUNT

Discount applies to current pricing:

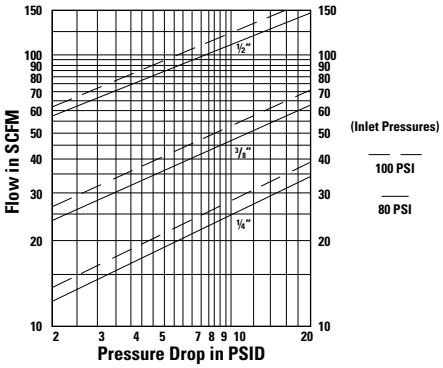
26+ less 4%

Dimensions

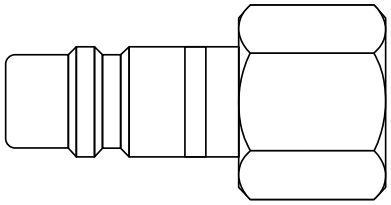
	Female Pipe				Male Pipe			
	D	E	F	G	D	E	F	G
⅛	.98	.57	.56	.65	1.04	.63	.44	.51
¼	1.39	.67	.75	.87	1.53	.81	.56	.65
⅜	2.04	.96	1.38	1.59	1.69	.86	.69	.79
½	1.85	.95	1.13	1.30	1.94	1.01	.88	1.01
¾	2.04	.96	1.38	1.59	2.19	1.11	1.06	1.23
1	2.16	1.00	1.63	1.88	2.51	1.34	1.38	1.59
1¼	2.38	1.11	2.00	2.31				
1½	2.81	1.17	2.38	2.74				

Air Couplers

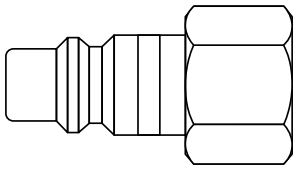
For Male Fittings Refer to Next Page!!



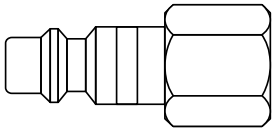
- Solid barstock construction
- High flow/low pressure drop
- 20 series
- Low, low price!
- Off-the-shelf delivery!



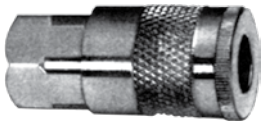
½" BODY SIZE

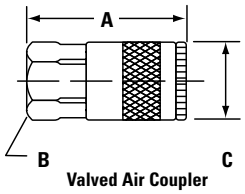


⅜" BODY SIZE



¼" BODY SIZE

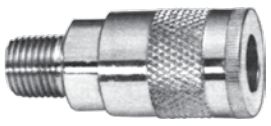


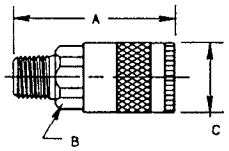


Valved Air Coupler

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

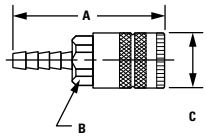
Part Number	Body Size	Body Material	Thread Size	Overall A	Hex B	Dia. C
B204M2	¼	Brass	⅛	1.89	.75	.88
B204M4	¼	Brass	¼	2.05	.75	.88
B204M6	¼	Brass	⅜	2.08	.75	.88
206M4	⅜	Steel	¼	2.36	.88	1.06
206M6	⅜	Steel	⅜	2.39	.88	1.06
206M8	⅜	Steel	½	2.55	.88	1.06
208M6	½	Steel	⅜	2.93	1.00	1.19
208M8	½	Steel	½	3.08	1.00	1.19
208M12	½	Steel	¾	3.21	1.13	1.19

QUANTITY DISCOUNT

Discount applies to current pricing:

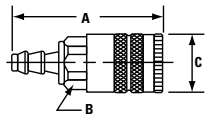
26–99	less 3%
100+	less 7%

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices



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

QUANTITY DISCOUNT

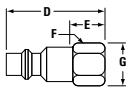
Discount applies to current pricing:

26–99	less 3%
100+	less 7%

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



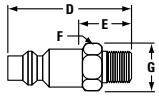
Female Pipe

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

QUANTITY DISCOUNT

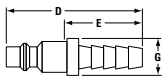
Discount applies to current pricing:

26–99	less 3%
100+	less 7%



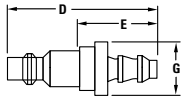
Male Pipe

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

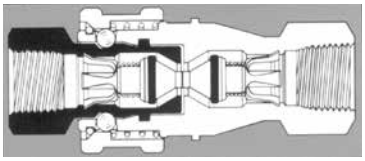


Push-Lok® Nipple

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			
Part Number		Body Material	Thd Size NPT	Part Number		Tip Material	Thd Size NPT
Buna Seals	Viton Seals			Buna Seals	Viton Seals		
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″

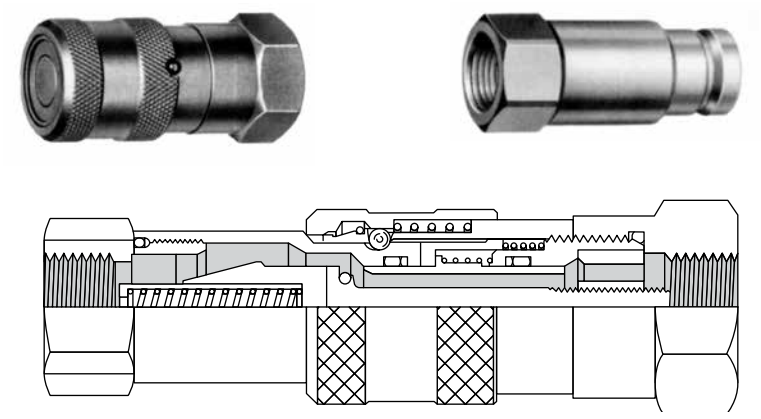
Female Body Half - Brass				Male Body Half - Brass			
Part Number		Body Material	Thd Size NPT	Part Number		Tip Material	Thd Size NPT
Buna Seals	Viton Seals			Buna Seals	Viton Seals		
990-2B	990-2BV	Brass	¼″	991-2B	991-2BV	Brass	¼″
990-3B	990-3BV	Brass	⅜″	991-3B	991-3BV	Brass	⅜″
990-4B	990-4BV	Brass	½″	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			
Part Number		Body Material	Thd Size NPT	Part Number		Tip Material	Thd Size NPT
Buna Seals	Viton Seals			Buna Seals	Viton Seals		
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″

Flat Face Couplers

MILACRON®
DME
Every step of the way

- 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



Female Couplers

Part Number		Metal	Thread Size NPT
Buna Seals	Viton Seals		
FF990–3	FF990–3V	Steel	⅜″
FF990–4	FF990–4V	Steel	½″

Male Couplers

Part Number		Metal	Thread Size NPT
Buna Seals	Viton Seals		
FF991–3	FF991–3V	Steel	⅜″
FF991–4	FF991–4V	Steel	½″

E

Water Couplers

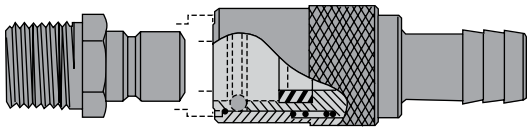
Quick Release, Flow Through Type

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.



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**

Quantity Discounts: MoldBasics® Sockets or Plugs discounts apply to current prices. Standard sizes may be combined on one order for quantity discounts. 100 to 499...less 3%; 500 or more...less 6%

Socket

Plug

SV-Series Connectors – NS
Two-Way Automatic Shut-Off Type

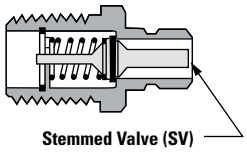
The DME line of SV-Series Connectors features a male plug and socket, each with an automatic shut-off stemmed valve. These connectors are designed for use with plastics molds and die cast dies in water, air or heat transfer oil lines. They feature a combination of brass and stainless steel in a leak-proof 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.

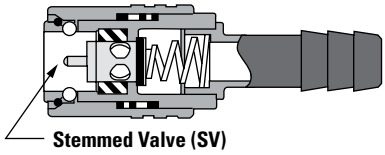
The SV-Series Male Plugs are now supplied with thread sealant. Eliminating the initial need for joint tape or compound, the sealant will withstand temperatures up to 400°F and pressures up to 200 PSI.

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.

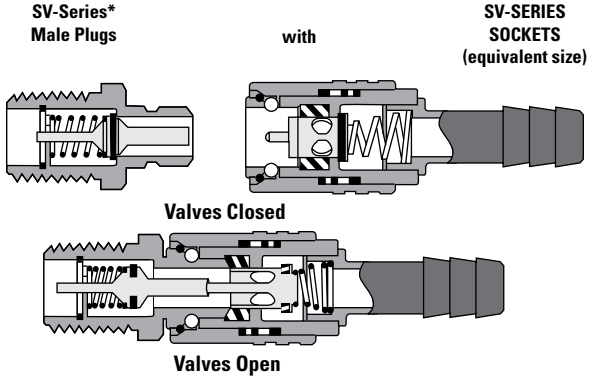
SV-Series Sockets
(Automatic Shut-Off Type with Stemmed Valve)



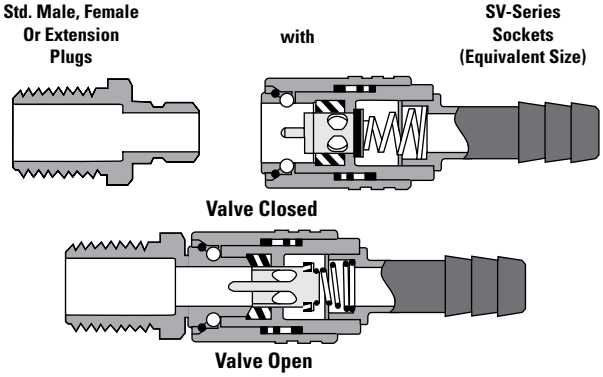
The DME SV-Series Sockets feature an automatic shut-off stemmed valve that is designed to work with the SV-Series Male Plugs, as well as the standard male, female and extension plugs. The sockets open automatically when connected and shut off automatically when disconnected. The SV-Series Sockets are designed to keep flow restriction to a minimum and are available with either straight, 45° or 90° hose stems.

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.

Quantity Discounts: MoldBasics® Sockets or Plugs discounts apply to current prices. Standard sizes may be combined on one order for quantity discounts. 100 to 499...less 3%; 500 or more...less 6%

Water Couplers

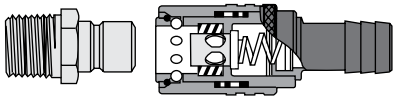
Quick Release, Automatic One-Way Shutoff

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.

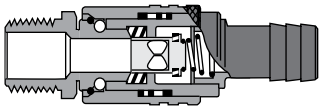
Socket Plug

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.



Value Closed



Value Open

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)

Quantity Discounts: MoldBasics® Sockets or Plugs discounts apply to current prices. Standard sizes may be combined on one order for quantity discounts. 100 to 499...less 3%; 500 or more...less 6%

Water Couplers

Quick Release, Automatic Two-Way Shutoff

MILACRON®
DME
Every step of the way

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Straight Stem 	**NS204SV**	1/4	1/4	NS252SV
	NS205SV	1/4	5/16	NS253SV
	NS206SV	1/4	3/8	NS352SV
	NS306SV	3/8	3/8	NS353SV
	NS308SV	3/8	1/2	NS354SV

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
45° Stem 	**NS224SV**	1/4	1/4	NS252SV
	NS225SV	1/4	5/16	NS253SV
	NS226SV	1/4	3/8	NS352SV
	NS326SV	3/8	3/8	NS353SV
	NS328SV	3/8	1/2	NS354SV

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
90° Stem 	**NS214SV**	1/4	1/4	NS252SV
	NS215SV	1/4	5/16	NS253SV
	NS216SV	1/4	3/8	NS352SV
	NS316SV	3/8	3/8	NS353SV
	NS318SV	3/8	1/2	NS354SV

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Socket Only 	**NS200SV**	1/4	1/8 NPT	NS252SV
	NS300SV	3/8	1/4 NPT	NS253SV

E

Water Couplers

Push-To-Connect/Push-To-Lock, Flow-Through 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

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
Straight Stem 	**NS204PL**	1/4	1/4	NS252PL
	NS206PL	1/4	5/16	NS253PL
	NS306PL	1/4	3/8	NS352PL
	NS308PL	3/8	1/2	NS353PL NS354PL
	NS504PL	3/8	1/2	NS554 (F)
	NS506PL	7/16	1/2	NS554 (F)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
45° Stem 	**NS224PL**	1/4	1/4	NS252PL
	NS226PL	1/4	3/8	NS253PL
	NS326PL	3/8	3/8	NS352PL
	NS328PL	3/8	1/2	NS353PL NS354PL
	NS524PL	1/2	1/2	NS554 (F)
	NS526PL	1/2	3/4	NS554 (F)

Description	Part Number	Nominal Passage	Hose I. D.	Fit Any Plug Number
90° Stem 	**NS214PL**	1/4	1/4	NS252PL
	NS216PL	1/4	3/8	NS253PL
	NS316PL	3/8	3/8	NS352PL
	NS318PL	3/8	1/2	NS353PL NS354PL
	NS514PL	1/2	1/2	NS554 (F)
	NS516PL	1/2	3/4	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.

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

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, Automatic 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

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

MILACRON®
DME
Every step of the way

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

QUANTITY DISCOUNT

Discount applies to current pricing:

100–499	less 3%
500+	less 6%

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.

Temperature Range	Silicone	Viton
	–90F to 400F	–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

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

QUANTITY DISCOUNT

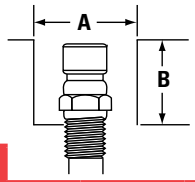
Discount applies to current pricing:

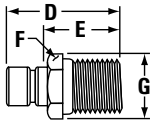
100+	less 7%

MILACRON®
DME
Every step of the way

Water Plugs

For Mold Connections





Brass & Steel Male Water Plugs

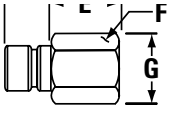
Series	Part Number	Material	Passage Size	NPT Size	Dia. A	Depth B	O.A.L. D	EXP. E	HEX F	LGST. G
200	NS250	Brass	3/16	1/16	.69	.69	.94	.54	.38	.43
	NS251	Brass	1/4	1/8	.69	.69	.94	.54	.56	.51
	NS252	Brass	1/4	1/4	.84	.94	1.13	.74	.56	.67
	NS252S	Steel	1/4	1/4	.84	.94	1.13	.74	.56	.67
	NS253	Brass	1/4	3/8	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 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 (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

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

QUANTITY DISCOUNT

Discount applies to current pricing:

100–499	less 3%
500+	less 6%

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Pipe Check

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.

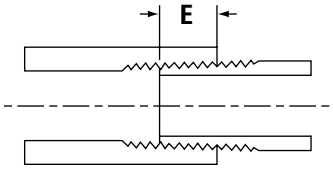
PC-100

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 Thread Data

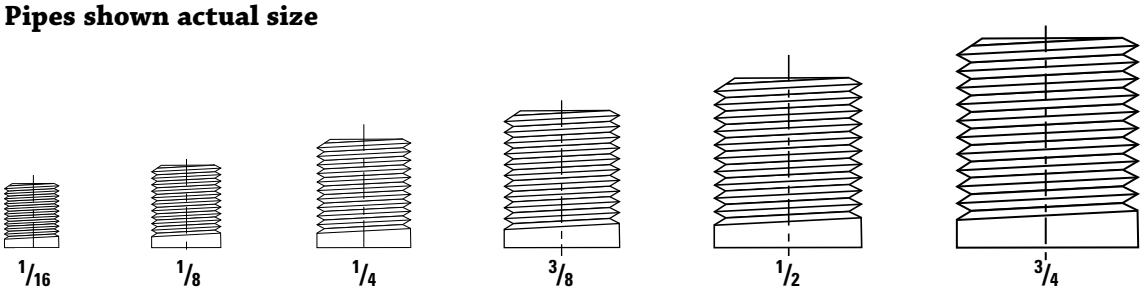
Most ordering mistakes are caused by measuring the pipe size of the fitting or component incorrectly. The nominal size of any pipe does not in fact refer to either the outside diameter (O.D.) or the inside diameter (I.D.) of the pipe. The table lists standard pipe sizes along with the actual O.D. and 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		E
				Without Ream	With Ream	
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



Pipe Extensions

Solid Brass

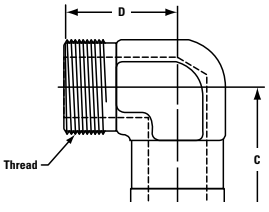
British Standard Thread also available!

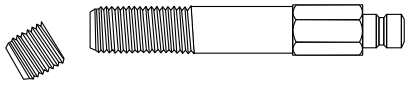
- Positive removal
- Cut to any length
- No rust; brass
- Low, low prices
- In stock!!
- Leak-free extensions
- Flush mount for easy mold handling

Part Number	Length	Pipe Size	Hex Size	A	Part Number	Length	Pipe Size	Hex Size	A
1/16" Pipe Extensions									
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

Part Number	Length	Pipe Size	Hex Size	A
3/8" Pipe Extensions				
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

Part Number	Length	Pipe Size	Hex Size	A
1/2" Pipe Extensions				
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.

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

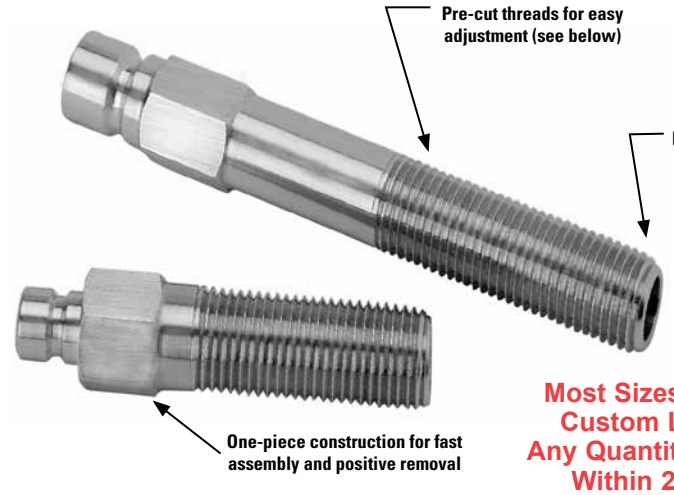
Extension Plugs

Solid Brass

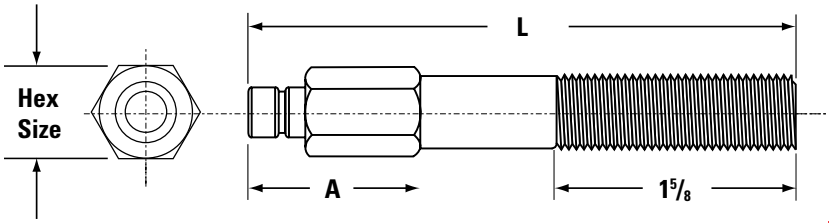
Brass Extension Plugs are designed to eliminate the installation problems of soldering, welding, etc. of connector plugs to steel pipe nipples. Length adjustments (when required) are easy and accurate with pre-cut pipe thread system.

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.



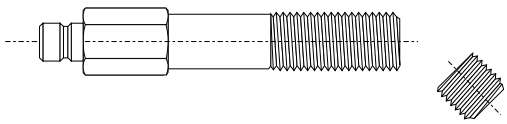
Most Sizes In-Stock! Custom Lengths - Any Quantity Delivered Within 2 Weeks!



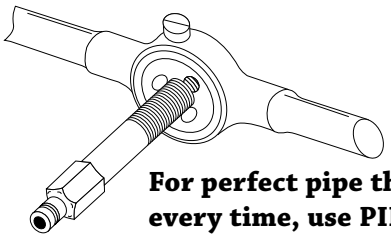
Custom Lengths Are Easy to Make!

Length Adjustments & Installation

1. When special length adjustments are required, simply cut piece to length and chamfer end.

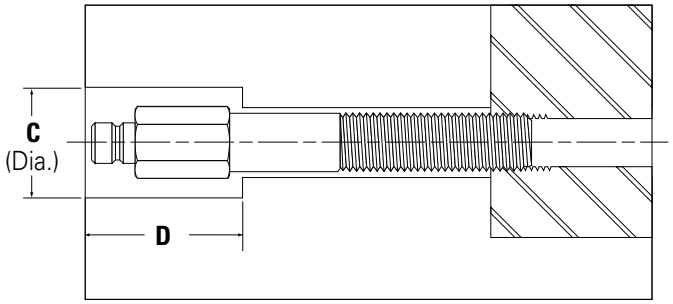


2. Turn into standard pipe threading die to re-taper threads.



For perfect pipe threads every time, use PIPE CHECK (see Page 427).

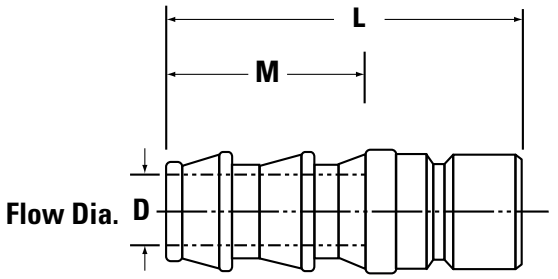
3. At assembly, the tapered brass threads provide a dependable, leak-proof seal. With one-piece construction, removability is always guaranteed.



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.



	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

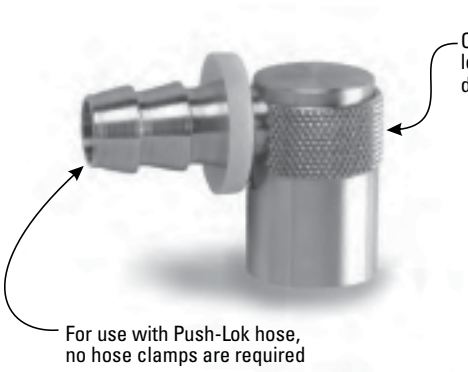
Cover Plugs

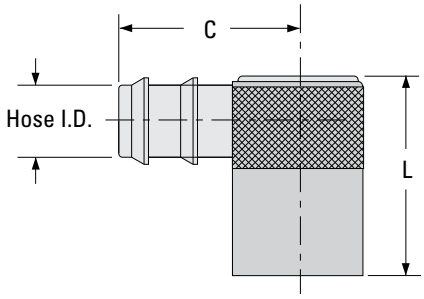
Mold Cover Plugs conveniently snap into socket connectors to stop coolant flow. Uses include plugging extra ports on machine cooling manifolds, and to stop hose drainage during mold changes.

Part Number	Fits Socket Number
CP200	200 (¼″ nominal)
CP300	300 (⅜″ nominal)
CP500	500 (½″ nominal)

Quick-Coupler Type Water Jumpers

Standard

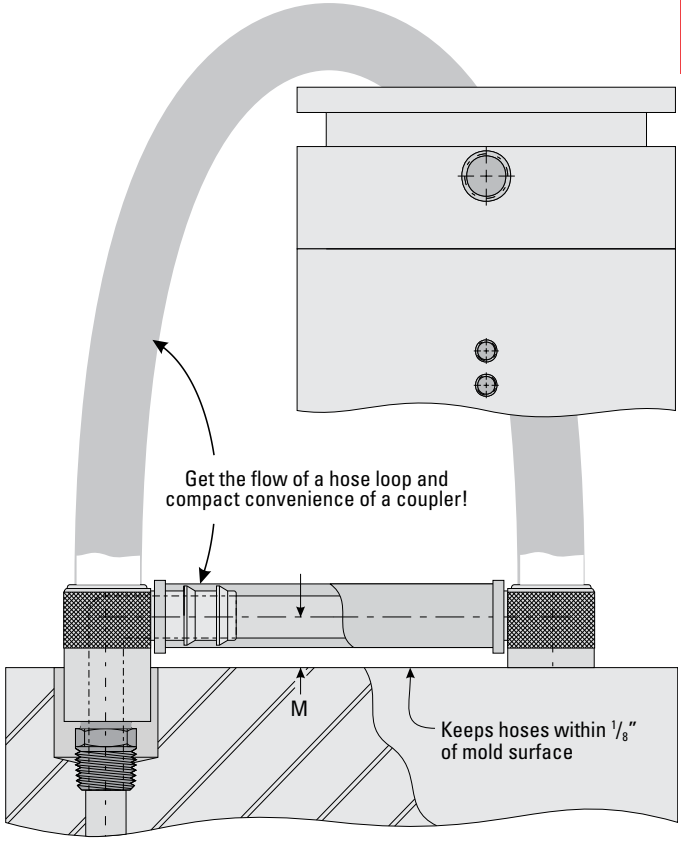




Part Number	Hose I.D.	Fits Plug Series No.	Measurements (refer to drawings)		
			L	C	M
WJ200-4	1/4	200	1	1 1/4	3/8
WJ200-5	5/16	200	1	1 1/4	3/8
WJ200-6	3/8	200	1	1 1/4	3/8
WJ300-6	3/8	300	1 7/16	1 9/16	1/2
WJ300-8	1/2	300	1 7/16	1 9/16	1/2
WJ500-8	1/2	500	2 1/8	2	7/8
WJ500-12	3/4	500	2 1/8	2	7/8

E

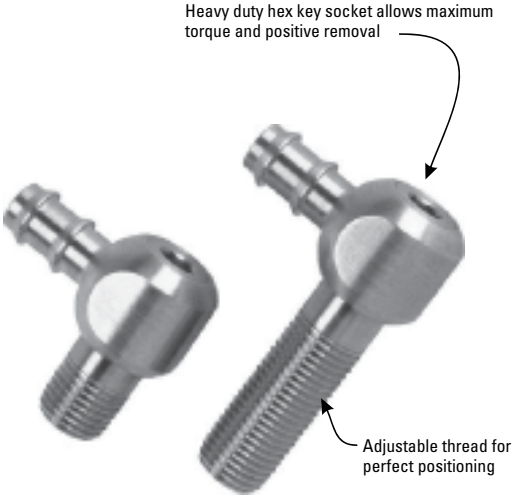
- Oversized and unrestricted flow path maintains full flow rate of hose used
- Compact design neatly and safely holds cooling lines close to the mold surface
- Exclusive Locking Sleeve prevents accidental disconnect and ensures proper installation
- Unlimited installation options; fits around obstacles, 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

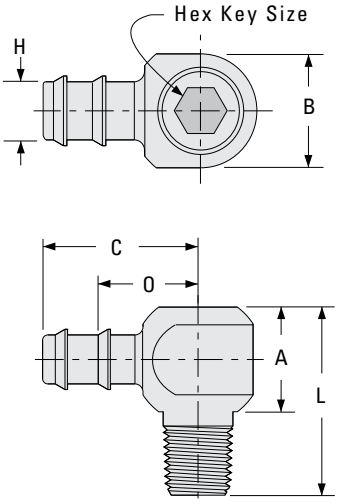


Quick–Coupler Type Water Jumpers

Swivel Head

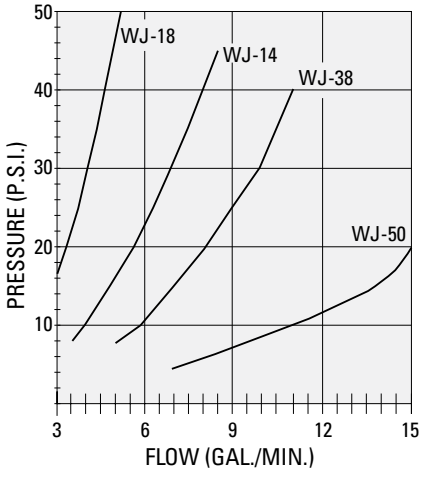
- Can be fully recessed to prevent accidental disconnect or damage
- Swivel body allows for installation in tight spaces
- Eliminate crimped hoses and setup errors
- Viton O-ring seals
- All brass construction
- Easy hex key installation
- Custom length water jumpers available

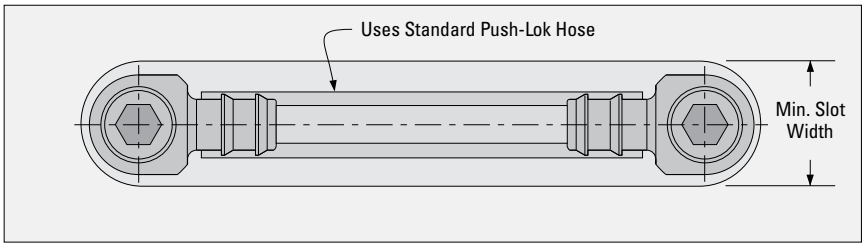


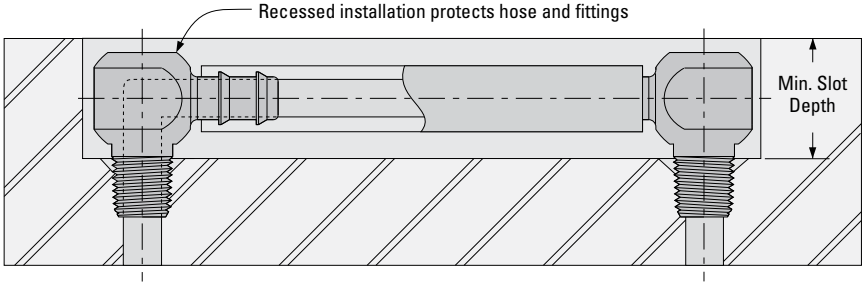


Part Number	Pipe Size (NPT)	Hose I.D.	Hex Key Size	Measurements (refer to drawing above)					For Recessed Installation	
				L	A	C	O	B	Min. Slot Width	Min. Slot Depth
WJ18S	1/8	5/16	3/16	1 3/16	11/16	1	5/8	.660	11/16	1
WJ18M	1/8	5/16	3/16	2	11/16	1	5/8	.660	11/16	1
WJ18L	1/8	5/16	3/16	3 1/2	11/16	1	5/8	.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

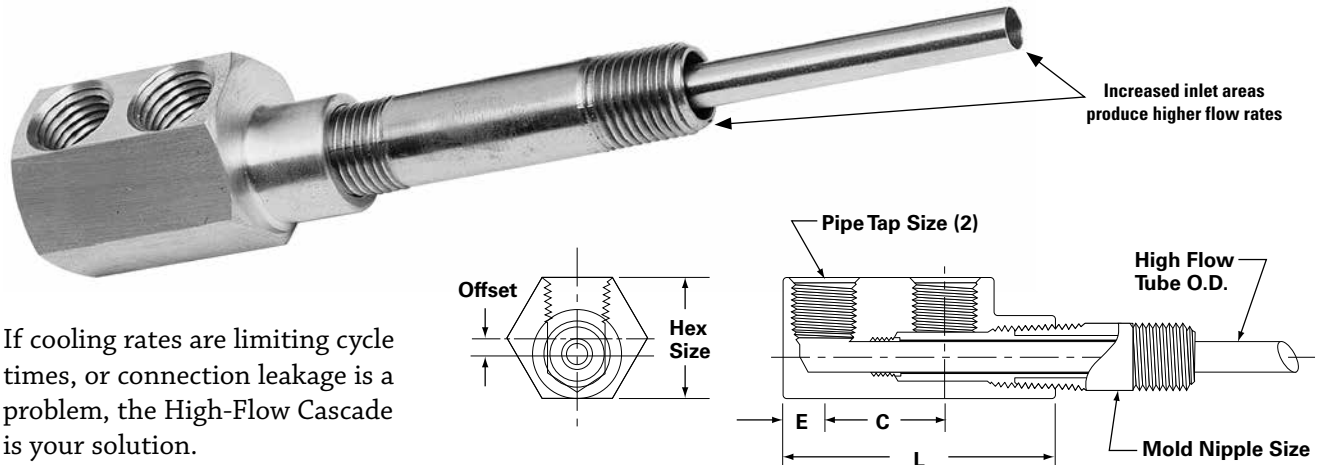
Flow Data



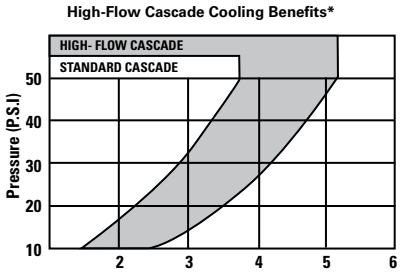




To Increase Production up to 65% Just Add Water



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.

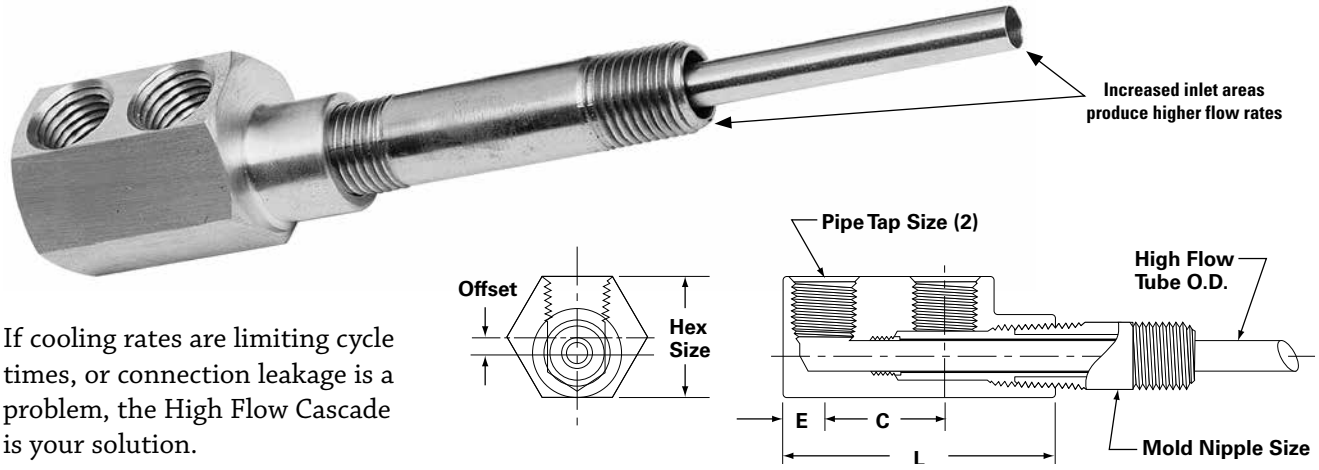
If water junction cooling rates are limiting your cycle times, or connection leakage is a problem, the High-Flow Cascade Water Junction is your solution.

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.

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%

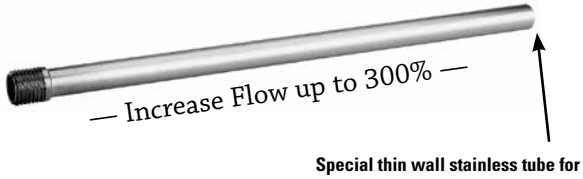
High-Flow Cascade Heads

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

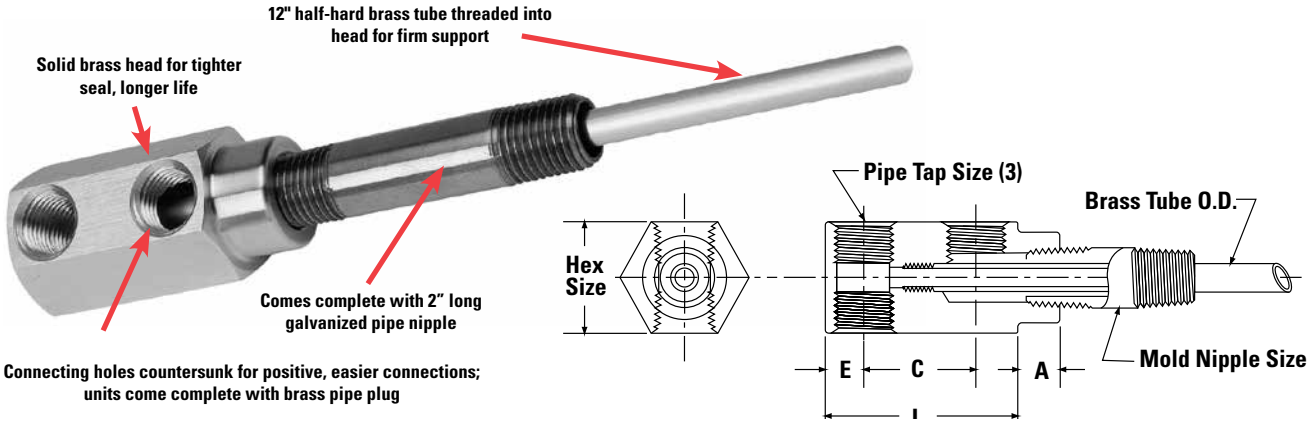
High-Flow Cascade Tubes

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.

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

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

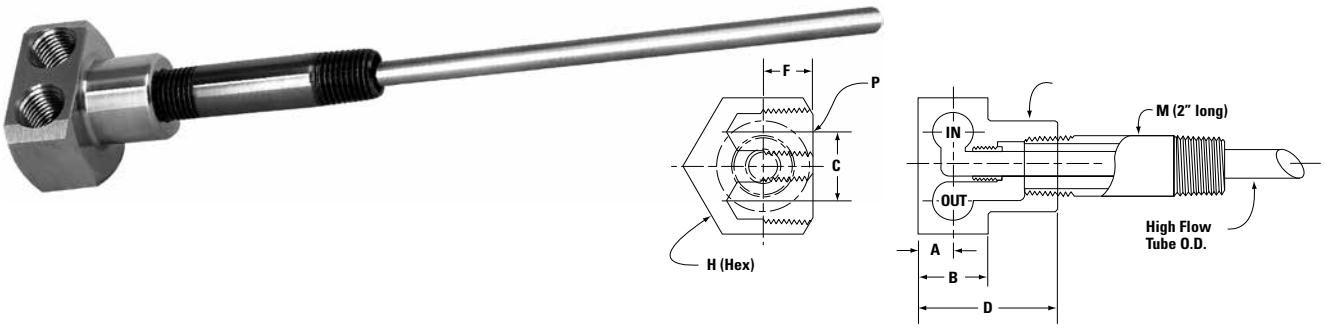
Cascade Heads

Part Number	Tube Number
16H	187T
186H	
181H	
146H	250T
146H4	
141H	
141H4	
381H	312T
381H4	
121H4	437T
341H4	625T

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.

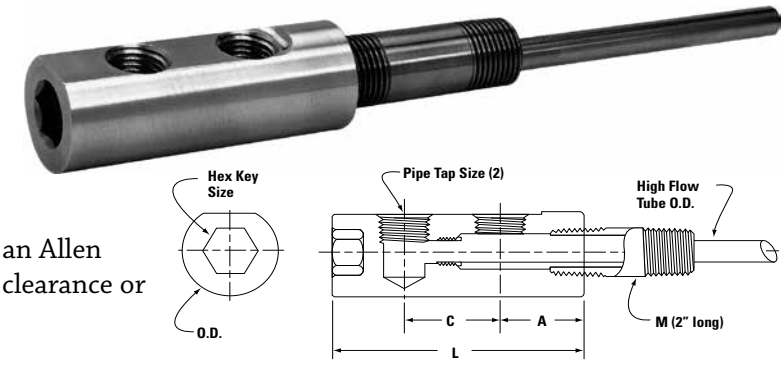


Mold Part Number	Pipe Nipple M	Hex Tap P	Tube Size H	O.D. T	A	B	C	D	E
ET1816	1/8	1/16	15/16	3/16	7/32	7/16	1/2	1	5/8
ET1418	1/4	1/8	1 1/4	1/4	5/16	5/8	11/16	1 1/4	3/4
ET1414	1/4	1/4	1 1/2	1/4	3/8	3/4	3/4	1 1/2	7/8
ET3814	3/8	1/4	1 1/2	5/16	3/8	3/4	3/4	1 1/2	1

Hex Cascade Assemblies

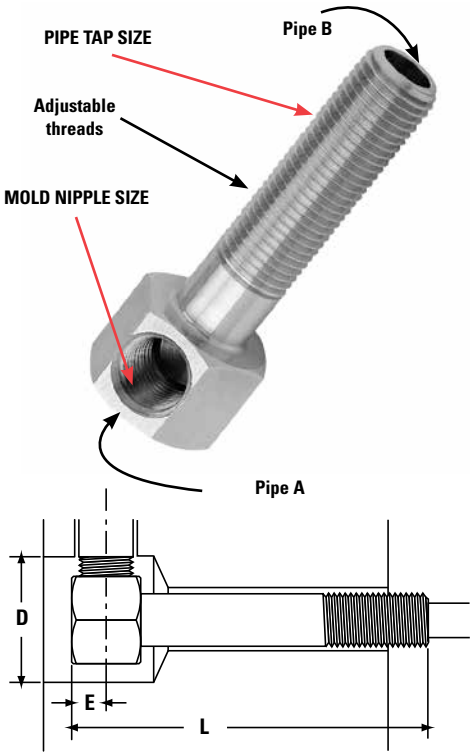
- High-flow design provides maximum cooling ratings
- Easy to install and remove
- Assemblies include brass head, 12" high-flow stainless tube, and 2" long galvanized pipe nipple

Hex 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!

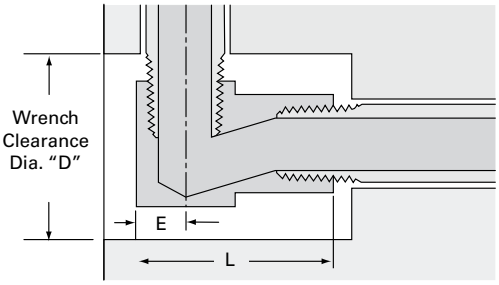
Part Number	Nipple Size	Tap Size	Hex Size	D	E	L*
18BX212	1/8	1/8	3/4	1 1/4	9/32	2 1/2
18BX4	1/8	1/8	3/4	1 1/4	9/32	4
1814BX212	1/4	1/8	3/4	1 1/4	9/32	2 1/2
1814BX4	1/4	1/8	3/4	1 1/4	9/32	4
14BX212	1/4	1/4	7/8	1 3/8	11/32	2 1/2
14BX4	1/4	1/4	7/8	1 3/8	11/32	4
1438BX212	3/8	1/4	7/8	1 3/8	11/32	2 1/2
1438BX4	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

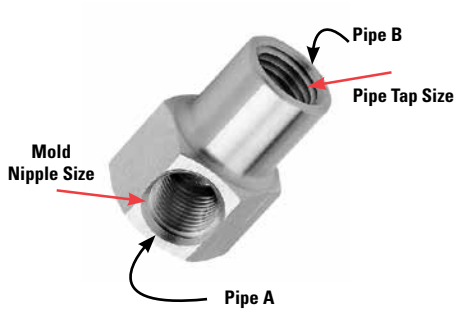
* Longer length Extension Elbows are available

E

Steel Hex Elbows

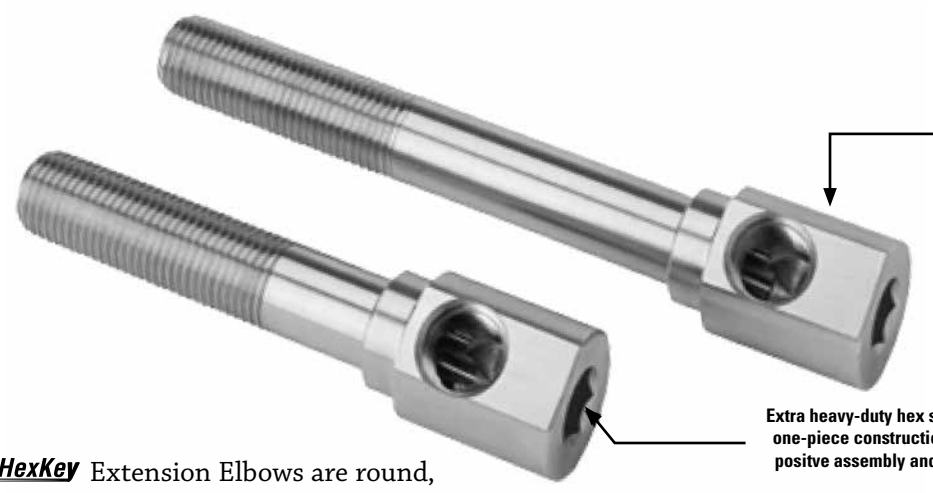
Steel Hex Elbows are used in longer reach applications or where a steel pipe nipple assembly is required. Outside, these elbows offer easy socket wrench installation, and minimum turning clearance "D". Inside, is an exclusive angular connecting hole (see diagram), which allows pipes to be torqued tight 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.





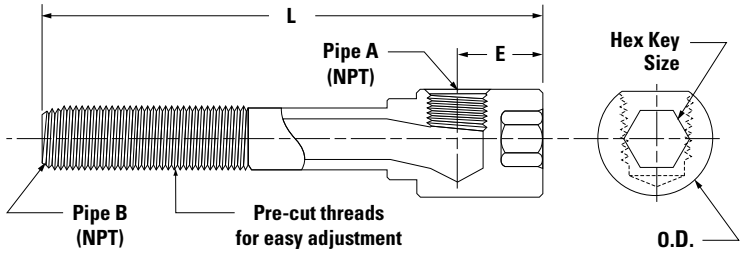
Part Number	Nipple Size	Tap Size (NPT)	Hex Size	L	E	Wrench Clearance "D"
16S	1/16	1/16	9/16	13/16	7/32	1
18S	1/8	1/8	3/4	1	9/32	1 1/4
1814S	1/8	1/4	3/4	1 1/4	9/32	1 1/4
14S	1/4	1/4	7/8	1 3/8	11/32	1 3/8
1438S	1/4	3/8	7/8	1 3/8	11/32	1 3/8
38S	3/8	3/8	1	1 5/8	1/2	1 1/2
50S	1/2	1/2	1 1/4	1 7/8	9/16	1 7/8
75S	3/4	3/4	1 1/2	2 1/4	5/8	2 1/4

HexKey Extension Elbows

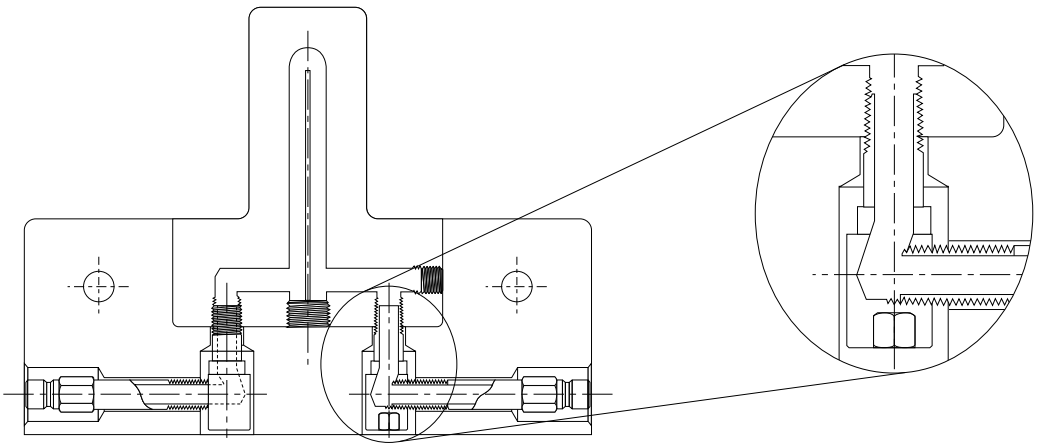


HexKey Extension Elbows are round, and install with an Allen wrench. Wrench clearance ideal for use inside the mold, or anywhere space is limited.

- 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

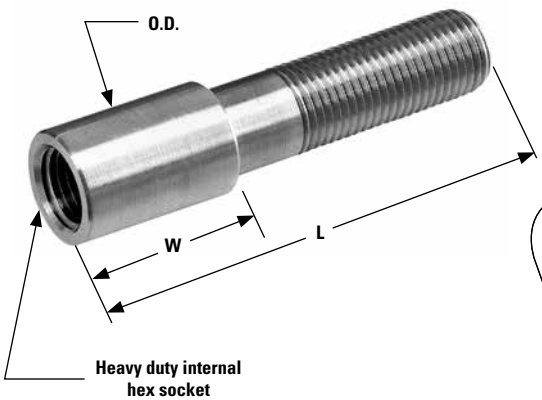


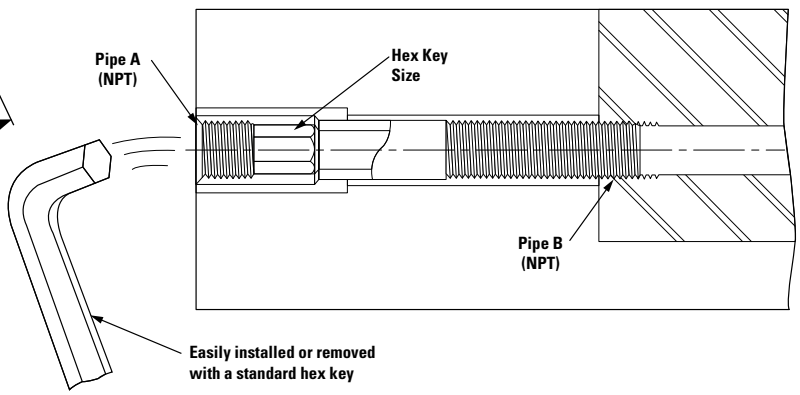
Part Number								Pipe Size A	Pipe Size B	E	O.D.	Min. Clearance Dia.	Hex Key Size
Overall Length "L"													
2½"	4"	5½"	7"	8½"	10"	11½"	13"						
EKL16-212	EKL16-4	EKL16-512	EKL16-7	EKL16-812	EKL16-10	EKL16-1112	EKL16-13	1/16	1/16	.531	.552	9/16	1/4
EKL18-212	EKL18-4	EKL18-512	EKL18-7	EKL18-812	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



U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

HexKey Extension Pipes





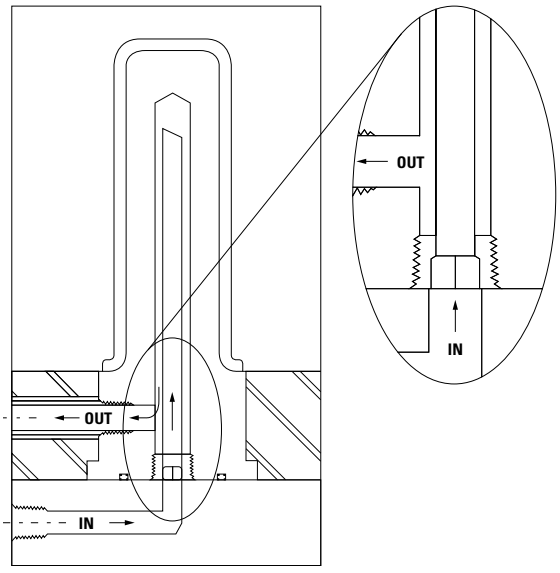
- HexKey Extension Pipes are available in a wide variety of special lengths and threads
- Accurate length adjustments are easy with the custom mold adjustable thread system

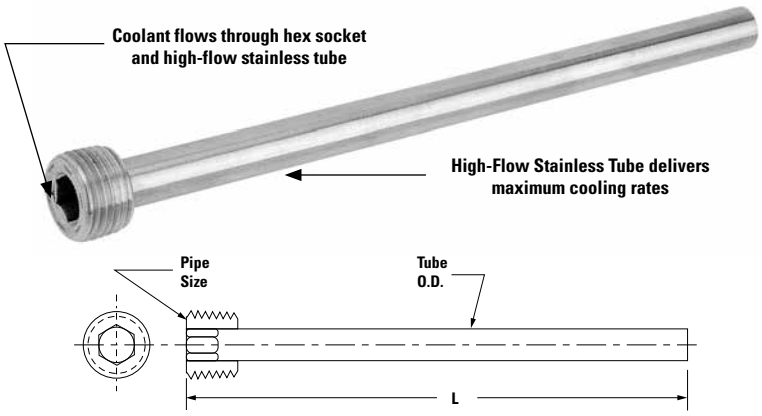
Part Number Overall Length "L"					Pipe Size A	Pipe Size B	W	O.D.	Hex Key Size
2½"	4"	5½"	7"	8½"					
EP18-212	EP18-4	EP18-512	EP18-7	EP18-812	⅛	⅛	¾	½	¼
EP14-212	EP14-4	EP14-512	EP14-7	EP14-812	¼	¼	1	11/16	⅜
EP38-212	EP38-4	EP38-512	EP38-7	EP38-812	⅜	⅜	1¼	13/16	½
EP50-212	EP50-4	EP50-512	EP50-7	EP50-812	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





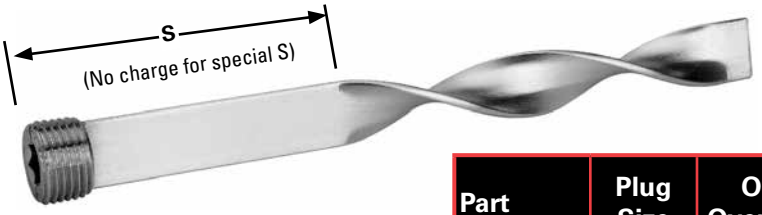
Part Number Overall Length "L"				Pipe Size (NPT)	Tube O.D.	Tube I.D.
12"	24"	36"	48"			
PT16-12	PT16-24	PT16-36	PT16-48	1/16	.125	.109
PT18-12	PT18-24	PT18-36	PT18-48	⅛	.187	.167
PT14-12	PT14-24	PT14-36	PT14-48	¼	.250	.230
PT38-12	PT38-24	PT38-36	PT38-48	⅜	.375	.345
PT12-12	PT12-24	PT12-36	PT12-48	½	.375	.345
PT34-12	PT34-24	PT34-36	PT34-48	¾	.437	.407

Straight Blade Plug Baffles

- Flush-seal type (⅞ taper) brass pipe plugs standard; alloy, stainless, and oversize (¾ 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
- ¾" NPT brass plug baffles for use with 29/32" tap drill are available from stock

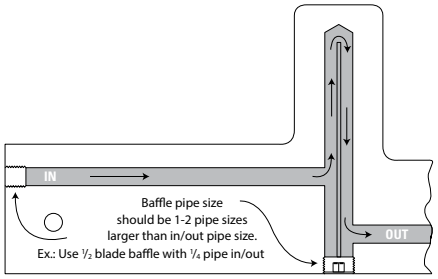
Part Number	Plug Size (NPT)	Overall Length	Blade Width	Drill Dia.	Blade Thick-ness
SB16x4	1/16	4″	1/4	1/4	.050
SB16x8	1/16	8″	1/4	1/4	.050
SB16x12	1/16	12	1/4	1/4	.050
SB18x4	1/8	4″	5/16	5/16	.050
SB18x8	1/8	8″	5/16	5/16	.050
SB18x12	1/8	12	5/16	5/16	.050
SB14x5	1/4	5″	7/16	7/16	.080
SB14x10	1/4	10″	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



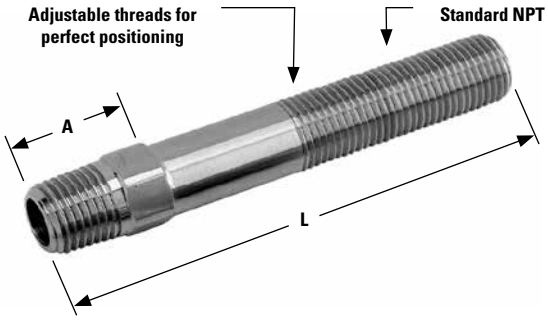
- Spiral provides turbulent cooling action and keeps blade centered in waterline for maximum flow rates

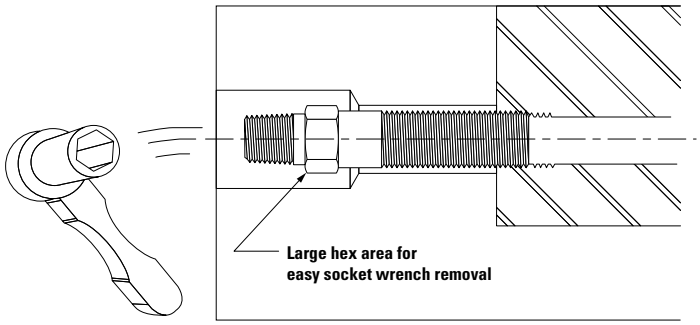
Part Number	Plug Size (NPT)	O Overall Length	Blade S Straight Length	Width (–.005) (–.015)	Drill Dia.	Blade Thick-ness
TB16x4	1/16	4″	2″	1/4	1/4	.050
TB16x8	1/16	8″	4″	1/4	1/4	.050
TB16x12	1/16	12	6	1/4	1/4	.050
TB18x4	1/8	4″	2″	5/16	5/16	.050
TB18x8	1/8	8″	4″	5/16	5/16	.050
TB18x12	1/8	12	6	5/16	5/16	.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



U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Adjustable Hex Nipple



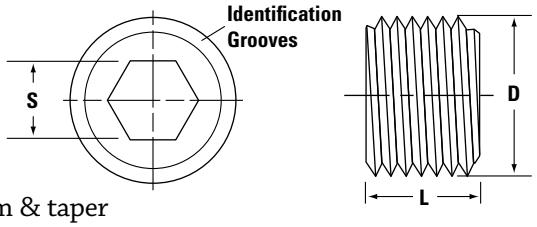


- Especially useful when installing Cascade Heads, Hex Elbows, etc. inside molds and slides
- Longer or special exact lengths available
- Also available in special thread combinations (including BSP)

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



- ⅞ 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 ⅞ Taper						Steel ⅞ 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		

QUANTITY DISCOUNT

Discount applies to current pricing:

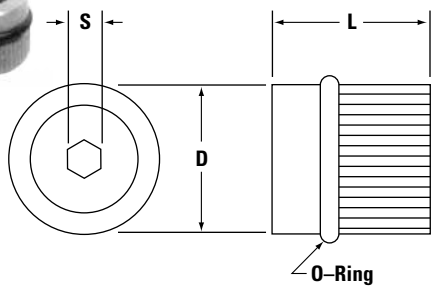
100+ less 5%

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



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

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

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	1 1/4″
BNS24	1 1/2″

QUANTITY DISCOUNT

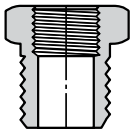
Discount applies to current pricing:

50+ less 5%

E

Brass Pipe Adapters

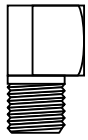
Brass Pipe Bushings



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

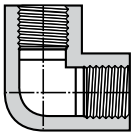
Brass Street Elbow 90°



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

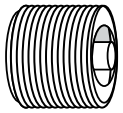
Brass Elbow 90°



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

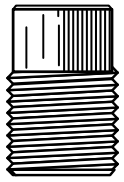
Brass Allen Plug



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

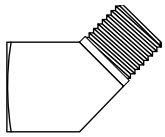
Brass Square Plugs



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

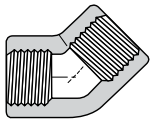
*Bronze

Brass Street Elbow 45°



Part Number	NPT Size
BE4S2-2	1/8
BE4S4-4	1/4
BE4S6-6	3/8
BE4S8-8	1/2

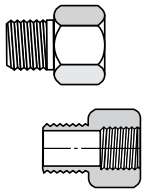
Brass Elbow 45°



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

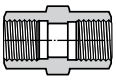
QUANTITY DISCOUNT

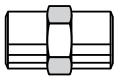
Discount applies to current pricing:

50+ less 3%

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

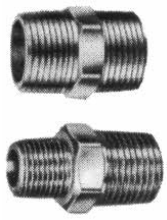
Brass Pipe Adapters





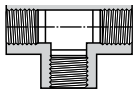
Brass Pipe Coupling

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



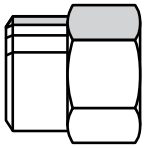
Brass Hex Nipple

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



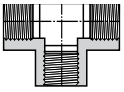
Brass Pipe Tee

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

QUANTITY DISCOUNT

Discount applies to current pricing:

50+	less 3%

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

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″

QUANTITY DISCOUNT

Discount applies to current pricing:

50–99	less 4%
100+	less 12%

MILACRON®
DME
Every step of the way

Standard Hose Barbs

Brass (unless noted otherwise)

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

QUANTITY DISCOUNT

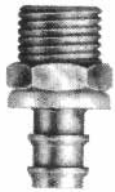
Discount applies to current pricing:

50+ less 5%

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Brass Push-On Hose Barbs

MILACRON®
DME
Every step of the way



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
305-12-8	3/4	1/2
305-12-12	3/4	3/4

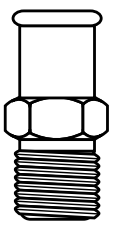
Rigid Female Pipe Push-On

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

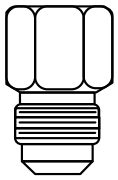
QUANTITY DISCOUNT

Discount applies to current pricing:

50+ less 5%

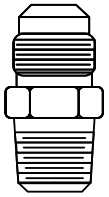
E

45° Brass Pipe Adapters



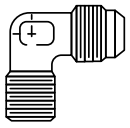
Male Flare × Female Pipe

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



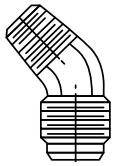
Flare × Pipe

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°

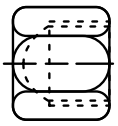
Part Number	Flare Size	Pipe Thread
349-4-2	1/4	1/8
349-4-4	1/4	1/4
349-6-2	3/8	1/8
349-6-4	3/8	1/4
349-6-6	3/8	3/8
349-8-6	1/2	3/8
349-8-8	1/2	1/2
349-10-8	5/8	1/2
349-12-12	3/4	3/4



Flare × Pipe – 45°

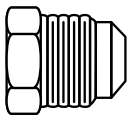
Part Number	Flare Size	Pipe Thread
347-4-2	1/4	1/8
347-4-4	1/4	1/4
347-6-4	3/8	1/4
347-6-6	3/8	3/8
347-8-6	1/2	3/8
347-8-8	1/2	1/2

37° Steel Pipe Adapters



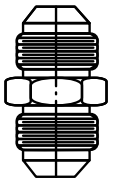
Cap Nut

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



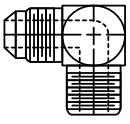
Plug

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



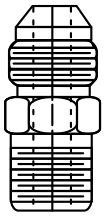
Union

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



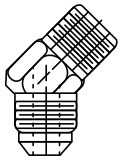
Flare × Pipe – 90°

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

QUANTITY DISCOUNT

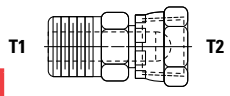
Discount applies to current pricing:

50+ less 3%

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

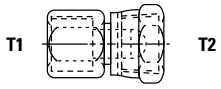
Steel Hydraulic Adapters

MILACRON®
DME
Every step of the way



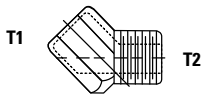
Male Pipe Adapter

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"



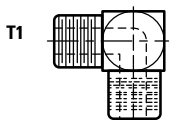
Female Pipe Adapter

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"



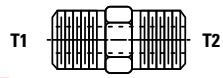
45° Street Elbow

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"



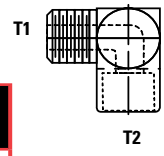
90° Male Pipe

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"



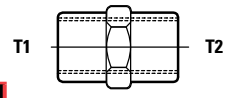
Male Pipe Coupling

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"



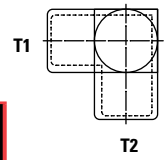
90° Street Elbow

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"

QUANTITY DISCOUNT

Discount applies to current pricing:

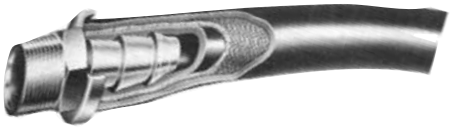
25+ less 3%

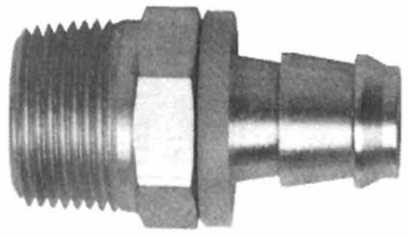
E

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.





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

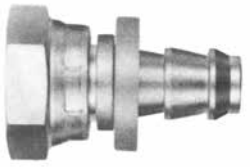
Part Number	Hose I. D.	Pipe Thread
31382-4-4	1/4″	1/4
31382-6-6	3/8″	3/8
31382-8-8	1/2″	1/2

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″

QUANTITY DISCOUNT

Discount applies to current pricing:

25–99	less 2%
100+	less 5%

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Helical Thread Inserts

MILACRON®

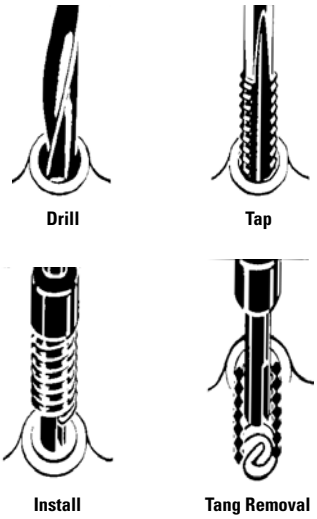
DME
Every step of the way

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:



E

CHRISLYNN
HELICAL INSERTS
PRECISION

- 18-8 stainless steel
- Corrosion resistant
- 22 micro-inch or better surface finish provides a smooth running, wear-resistant fastening
- Low prices!

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

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
10″		GNL6100	

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
6″	GNL2460	BLNL2460

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

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

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

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

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

Galvanized & Black Pipe Fittings

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

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

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

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

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 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

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

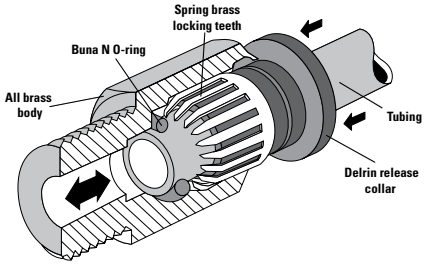
E

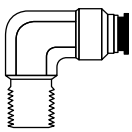
Features

- 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

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

Male Elbows

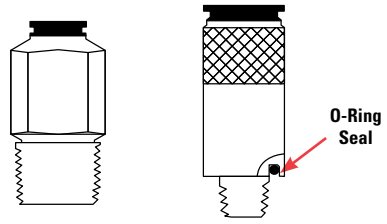
Tube OD	Pipe Thread	Part Number
5/32	10–32 UNF	55010
5/32	1/8	56912
5/32	1/4	56914
1/4	1/8	56942
1/4	1/4	56944
3/8	1/4	56964
3/8	3/8	56966
1/2	3/8	56986
1/2	1/2	56988

QUANTITY DISCOUNT

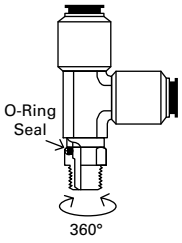
Discount applies to current pricing:

50–99	less 2%
100+	less 5%

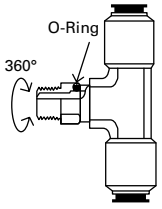
Push-in Tube Fittings



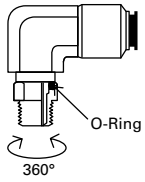
MALE CONNECTORS



MALE SWIVEL RUN TEE

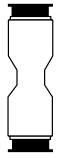


MALE SWIVEL BRANCH TEE

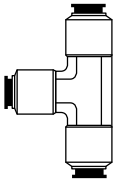


360° SWIVEL ELBOWS

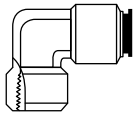
UNION REDUCER



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

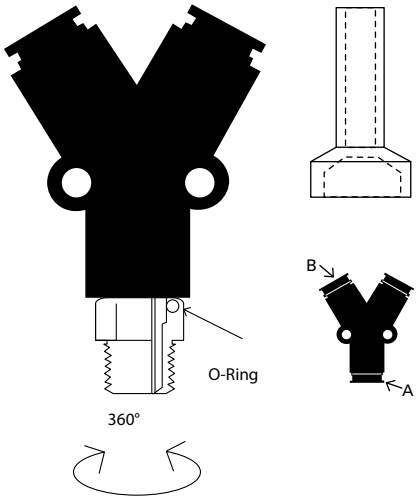
QUANTITY DISCOUNT

Discount applies to current pricing:

50–99	less 2%
100+	less 5%

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

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

QUANTITY DISCOUNT

Discount applies to current pricing:

50–99	less 2%
100+	less 5%

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

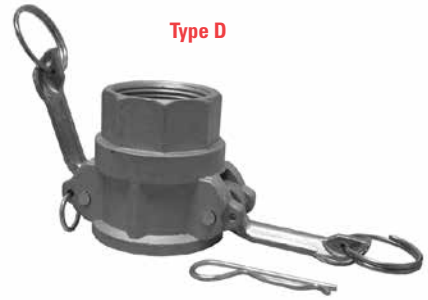
Size	Aluminum	Brass	Stainless
3⁄4"	A75AL	A75BR	A75SS
1"	A1AL	A1BR	A1SS
1 1⁄4"	A125AL	A125BR	A125SS
1 1⁄2"	A150AL	A150BR	A150SS
2"	A2AL	A2BR	A2SS
2 1⁄2"	A250AL	A250BR	A250SS
3"	A3AL	A3BR	A3SS
4"	A4AL	A4BR	A4SS
5"	A5AL	A5BR	
6"	A6AL	A6BR	
3⁄4"	B75AL	B75BR	B75SS
1"	B1AL	B1BR	B1SS
1 1⁄4"	B125AL	B125BR	B125SS
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	

E

Cam & Groove Couplings

Type A

Type D



Type E

Type F

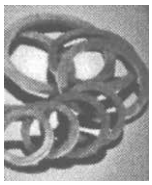
Type DC

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	

Cam & Groove Couplings

MILACRON®
DME
Every step of the way

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	

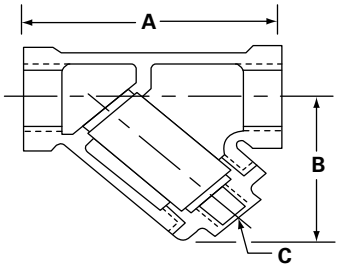
Gaskets

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

QUANTITY DISCOUNT

Discount applies to Bronze "Y" Pattern Strainers (Replacement Strainers Excluded) Current Prices:

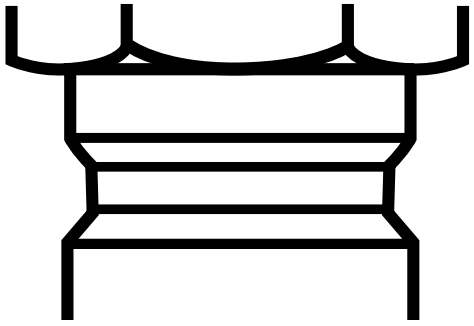
11–24	less 2%
25+	less 4%

Split Flange Adapters

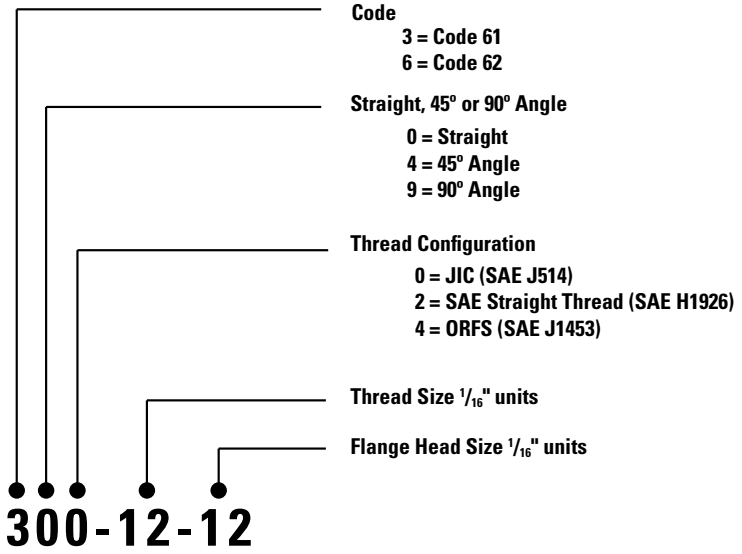
- One-piece carbon steel construction simplifies installation, eliminates potential leak points
- Zinc dichromate finish for high corrosion resistance
- Compact design simplifies assembly
- Optional thread configurations - BSPP and NPTF (call DME for availability)

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



Ordering System:



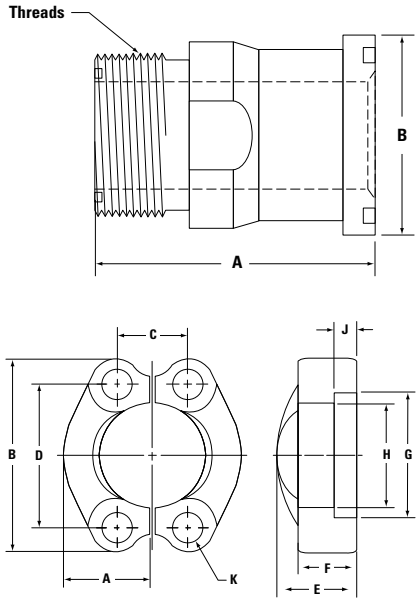
U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Split Flange Adapters

MILACRON®
DME
Every step of the way

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



E

Split Flange Kits

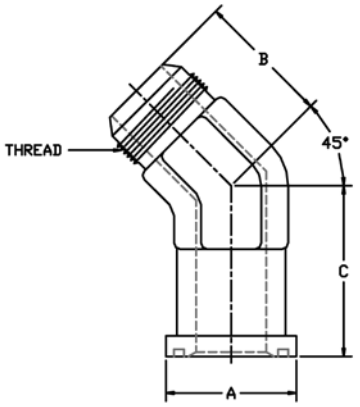
Flange Half No.	*KIT	Flange Size	A	B	D	E	F	G	H	J	K	O-Ring	HHCS
Code 61													
8SF-2	**8SFO**	0.50	0.86	2.12	1.50	0.75	0.5	1.22	0.96	0.245	0.344	210	5/16–18 × 1.25
12SF-2	**12SFO**	0.75	0.98	2.56	1.88	0.88	0.56	1.53	1.27	0.245	0.406	214	3/8–16 × 1.25
16SF-2	**16SFO**	1.00	1.11	2.75	2.06	0.94	0.62	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

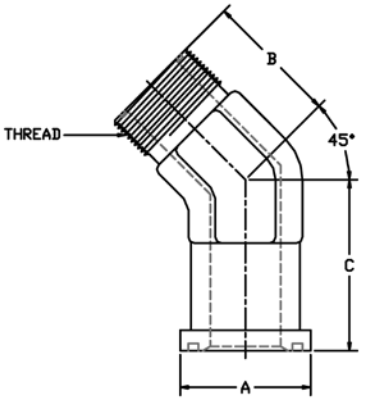
45° JIC Thread

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	1 5/8–12
340-24-24	1½	1½	2.375	1.78	2.38	1 7/8–12
340-32-32	2	2	2.812	2.22	3.00	2 1/2–12
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	1 5/8–12
640-24-24	1½	1½	2.500	1.78	2.38	1 7/8–12
640-32-32	2	2	3.125	2.22	3.00	2 1/2–12

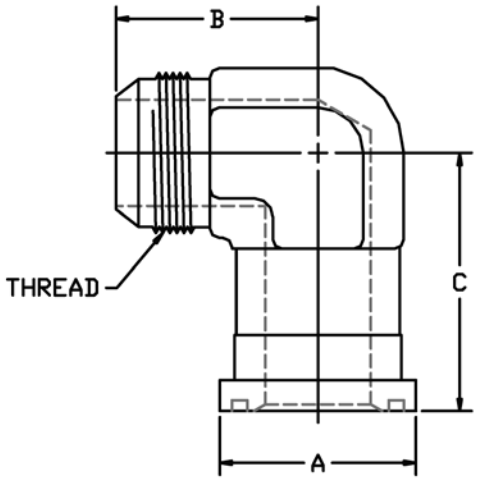


45° ORFS Thread

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



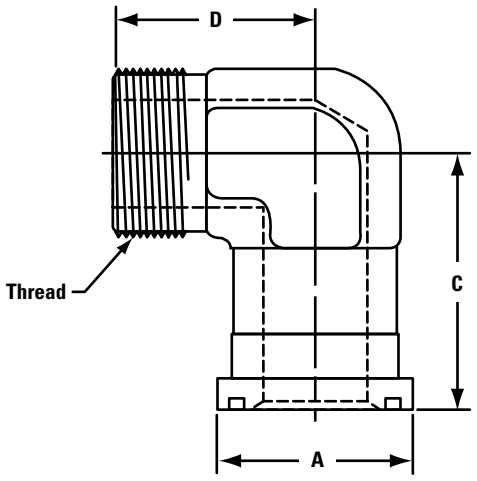
Split Flange Adapters



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

Split Flange Adapters



90° ORFS Thread

Part Number	Tube O.D.	Flange Size	A	B	C	Thread
Code 61						
394-12-12	¾	¾	1.500	2.13	1.66	1 3/16–12
394-16-12	1	¾	1.500	2.13	1.66	1 7/16–12
394-12-16	¾	1	1.750	2.37	1.81	1 3/16–12
394-16-16	1	1	1.750	2.37	1.81	1 7/16–12
394-20-16	1¼	1	1.750	2.37	1.81	1 11/16–12
394-16-20	1	1¼	2.000	2.62	2.06	1 7/16–12
394-20-20	1¼	1¼	2.000	2.62	2.06	1 11/16–12
394-24-20	1½	1¼	2.000	2.62	2.06	2–12
394-20-24	1¼	1½	2.375	3.15	2.33	1 11/16–12
394-24-24	1½	1½	2.375	3.15	2.33	2–12
Code 62						
694-12-12	¾	¾	1.625	2.13	1.66	1 3/16–12
694-16-12	1	¾	1.625	2.13	1.66	1 7/16–12
694-12-16	¾	1	1.875	2.37	1.81	1 3/16–12
694-16-16	1	1	1.875	2.37	1.81	1 7/16–12
694-20-16	1¼	1	1.875	2.37	1.81	1 11/16–12
694-16-20	1	1¼	2.125	2.76	2.06	1 7/16–12
694-20-20	1¼	1¼	2.125	2.76	2.06	1 11/16–12
694-24-20	1½	1¼	2.125	2.76	2.06	2–12
694-20-24	1¼	1½	2.500	3.15	2.33	1 11/16–12
694-24-24	1½	1½	2.500	3.15	2.33	2–12

Push-Lok® Hose

Parker® - 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-	¼″	.50	350	1400	600
801-6-	⅜″	.63	350	1400	450
801-8-	½″	.78	300	1200	*300
801-10-	⅝″	.91	300	1200	300
801-12-	¾″	1.03	300	1200	200

Specify stock color

*Pressures are in PSI

QUANTITY DISCOUNT

Discount applies to current pricing:

100″- Full Reel less 5%
Full Reel+ less 10%

E

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.

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

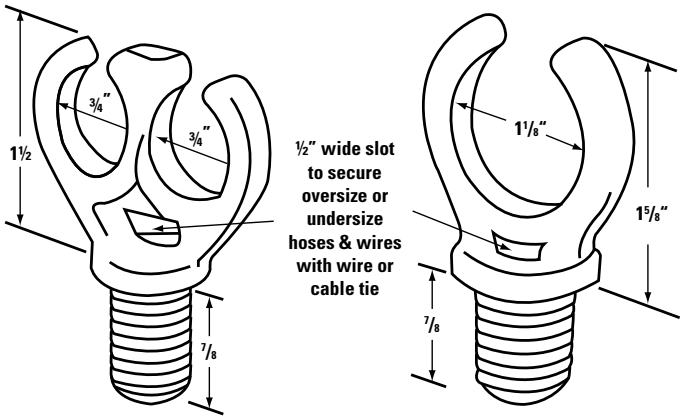
QUANTITY DISCOUNT

Discount applies to current pricing:

100″- Full Reel less 5%
Full Reel+ less 10%

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	2⁹⁄₁₆″	2⅜″
Height Above Base	1⅝″	1⅜″
Thickness Of Clip	⅜″	⅜″
Clip O. D.	1¹¹⁄₁₆″	2″
Clip I. D.	1⁵⁄₃₂″	¾″
Clip Opening	⅝″	⅜″

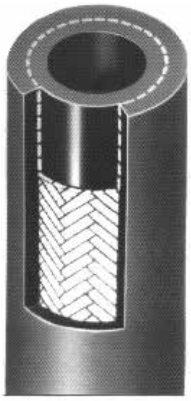
	Single Hose Clip		Double Hose Clip	
Thread Sizes	Fits Hose Sizes	Part Number	Fits Hose Sizes	Part Number
½–13	FROM	**PHC1-8**	FROM	**PHC2-8**
⅝–11	⅝″	**PHC1-10**	⅜″TO	**PHC2-10**
¾–10	TO	**PHC1-12**	¾″	**PHC2-12**
1–8	1–⅛″O.D.	**PHC1-16**	O.D.	**PHC2-16**
M12 × 1.75mm	FROM	**PHC1-12M**	FROM	**PHC2-12M**
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**

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

9000 Push-on Hose

MILACRON®

DME
Every step of the way



9000 Push-On Hose offers the highest working pressures, widest array of colors, lowest prices and toughest performance you'll find anywhere! Use for air, water, oil, mild solvents & dilute acids - including hot air & oil saturated air. Nitrile tube and cover. Applications: This hose is widely used for shop air systems, general industrial, maintenance & automotive applications for water, antifreeze, oil, air, petroleum based hydraulic fluids and lubricating oils. Construction: Tube: Seamless Synthetic Rubber (Nitrile), Highly Resistant to heat and oil. Reinforcement: One braid of high strength synthetic cord laid at a most effective angle for strength and coupling. Cover: Oil, weather & abrasion resistant synthetic rubber (Nitrile)

Colors

- Red
- Blue
- Green
- Yellow
- Gray
- Black

Specifications

Temp. Range: .....–40° to +212°F (water to 200°F)
Working Pressure: .....300 psi
Min. Burst: .....1200 psi

Part Number	Hose I.D.	Hose O.D.	Feet Per Reel	Stock Colors					
				Red	Blue	Green	Gray	Yellow	Black
9000-4-	¼″	½″	300	X	X	X	X	X	X
9000-6-	⅜″	⅝″	300	X	X	X	X	X	X
9000-8-	½″	¾″	300	X	X	X	X	X	X
9000-10-	⅝″	⅞″	250	X	X	SO	SO	SO	X
9000-12-	¾″	1″	225	X	X	SO	SO	SO	X

Specify Color X = Stock Color, SO = Special Order - approx. 2-3 weeks lead time - Reel quanities only
Our Reels ship via UPS! We are concerned about saving you money!

QUANTITY DISCOUNT

Discount applies to current pricing:

100+ less 6%

E

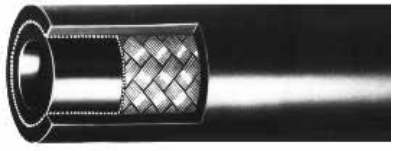
General Purpose Air & Water Hose

General Purpose • Great Value • Low-Priced 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

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.

QUANTITY DISCOUNT

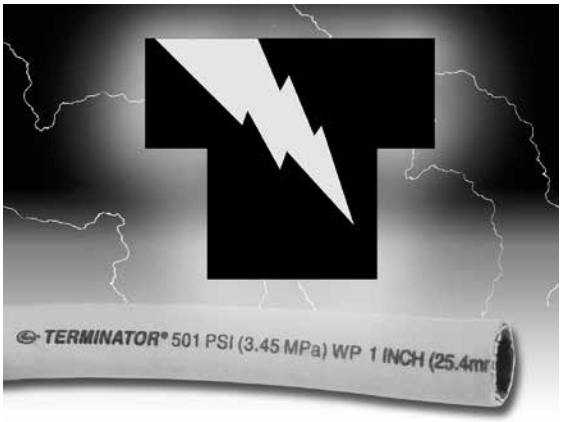
Discount applies to current pricing:

100+ less 6%

Multi-Purpose Hose

Terminator®

Bright Yellow Cover



Your search for the toughest, longest-lasting, multi-purpose hose is over. Just like its namesake, Gates Terminator hose is almost indestructable, relentless in resisting punishing applications. Freeze it in winter, scorch it in summer, drag it through the most punishing environments, and it keeps performing like nothing happened. Even when you think you've destroyed Gates Terminator hose, it will surprise you and continue to give good service. It's the ultimate multi-purpose hose.

Long Lasting...Tough...Versatile...

Recommended for: Applications requiring a premium-quality, multi-purpose hose with superior abrasion resistance for air, oil and some chemical applications. Excellent durability for extra-long life. Excellent weather and ozone resistance.

Temperature: –40°F to +212°F (–40° C to +100°) continuous service

Construction: Tube-type C (Nitrile); black
Reinforcement-synthetic, high-tensile cord
Safety factor- 4:1 working/burst
Cover-type C2 (carboxylated nitrile); yellow

Standards: Tube: RMA (Class A) high oil resistance
Cover-RMA (Class A) high oil resistance; meets USMSHA 30 CFR 18.65; flame-resistant; nonconductive at 1,000 volts D.C.; meets electrical resistance of one megohm per inch when subjected to 1,000 volts D.C.; storage and use may adversely affect electrical properties.

Terminator® Multi-Purpose Industrial Hose

Part Number	Hose Dimensions		Working Pressure	Bend Radius	Suction (In. Hg.)	Feet Per Reel
	I.D. (Nom.)	O.D. (Nom.)				
8500-4	¼″	.570″	400 PSI	3.0″	30	500–700
8500-6	⅜″	.750″	400 PSI	3.0″	20	500–700
8500-8	½″	.890″	400 PSI	5.0″	25	500–700
8500-12	¾″	1.200″	400 PSI	6.0″	15	500–700
8500-16	1″	1.515″	400 PSI	8.0″	10	300–400
8500-20	1–¼″	1.725″	400 PSI	10.0″	10	300–400
8500-24	1–½″	2.09″	400 PSI	12.0″	10	100
8500-32	2″	2.640″	400 PSI	14.0″	10	100

QUANTITY DISCOUNT

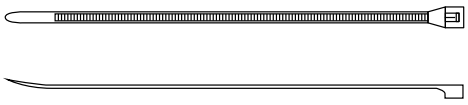
Discount applies to current pricing:

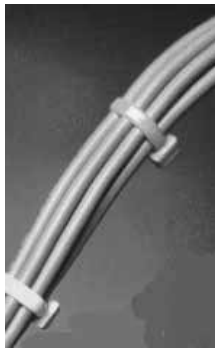
100+ less 4%

Nylon Cable Ties

MILACRON®
DME
Every step of the way

- 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.

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

QUANTITY DISCOUNT

Discount applies to current pricing:

10 or more bags less 3%

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.

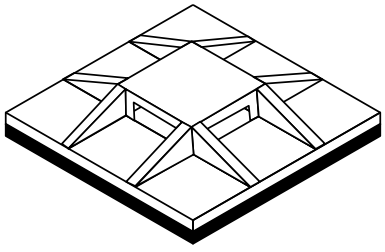
Black Nylon Cable Tie Base

Part Number	Description
6295	0.75″ × 0.75″ Base
6297	1″ × 1″ Base

QUANTITY DISCOUNT

Discount applies to current pricing:

10 or more bags less 3%



MILACRON® 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″

QUANTITY DISCOUNT

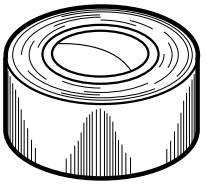
Discount applies to current pricing:

50–100	**less 4%**
100+	**less 12%**

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



MILACRON®
DME
Every step of the way

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

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

QUANTITY DISCOUNT

Discount applies to hose cutter & blade current pricing:

5+	less 5%

E

Push-Lok® Cut-off Assembly Tool

Parker®

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

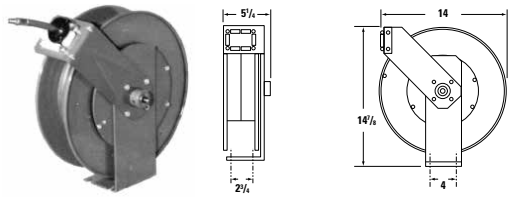
Part Number **881540**

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'
¼" multi-purpose hose 300 PSI
Part Number LB250 **

Inlet is ⅜" NPT
Max. Temp –200°F



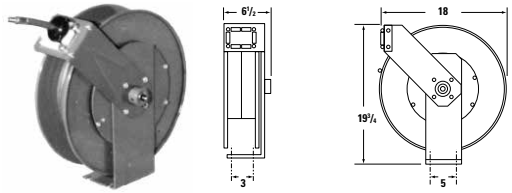
Other sizes, lengths and PSI available, ask one of our knowledgeable sales people.

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.

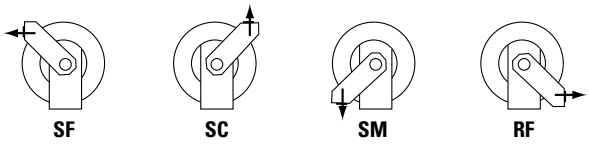
Hose Reel complete with 50'
of ⅜" multi-purpose hose 300 PSI
Part Number LC350 **

Inlet is ½" 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.



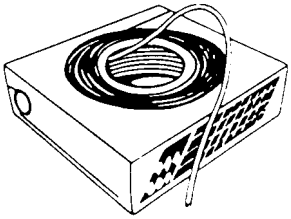
*** Reels are shipped in the SF position unless otherwise requested.*

Nylon & Polyethylene Tubing

Polyethylene Tubing (–40° to +135°F)

Part Number	Tubing OD	Tubing ID	Burst Pressure	Wall Thick.	Box Quantity
PE22-100	⅛"	.085	500PSI	.020	100
PE25-100	5/32"	.105	500	.025	100
PE44-100	¼"	.170	500	.040	100
PE44-500	¼"	.170	500	.040	500
PE66-100	⅜"	.200	500	.062	100
PE66-500	⅜"	.200	500	.062	500
PE88-100	½"	.375	500	.062	100
PE88-500	½"	.375	500	.062	500

- Good all-purpose tubing
- Extremely low cost
- Many plant uses



Stock color is natural. Other colors & lengths will be stocked depending on demand.

Flexible Nylon Tubing (–60° to +250°F)

Part Number	Tubing OD	Tubing ID	Burst Pressure	Wall Thick.	Box Quantity
NY22-100	⅛"	.091	1000PSI	.017	100
NY25-100	5/32"	.105	1000	.025	100
NY44-100	¼"	.215	1000	.035	100
NY66-100	⅜"	.325	1000	.050	100
NY88-100	½"	.438	1000	.062	100
NY88-500	½"	.438	1000	.062	500

QUANTITY DISCOUNT
Discount applies to current prices:
10 or more boxes less 5%

- High burst pressure & temperature
- More flexible than standard nylon
- Bends tighter without kinking

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

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

Norflex Silicone

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.

QUANTITY DISCOUNT

Discount applies to current pricing:

50–249	less 2%
250+	less 7%

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

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

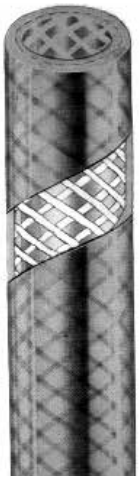
Female swivel JIC and stainless fittings are available; contact DME Industrial Supplies.

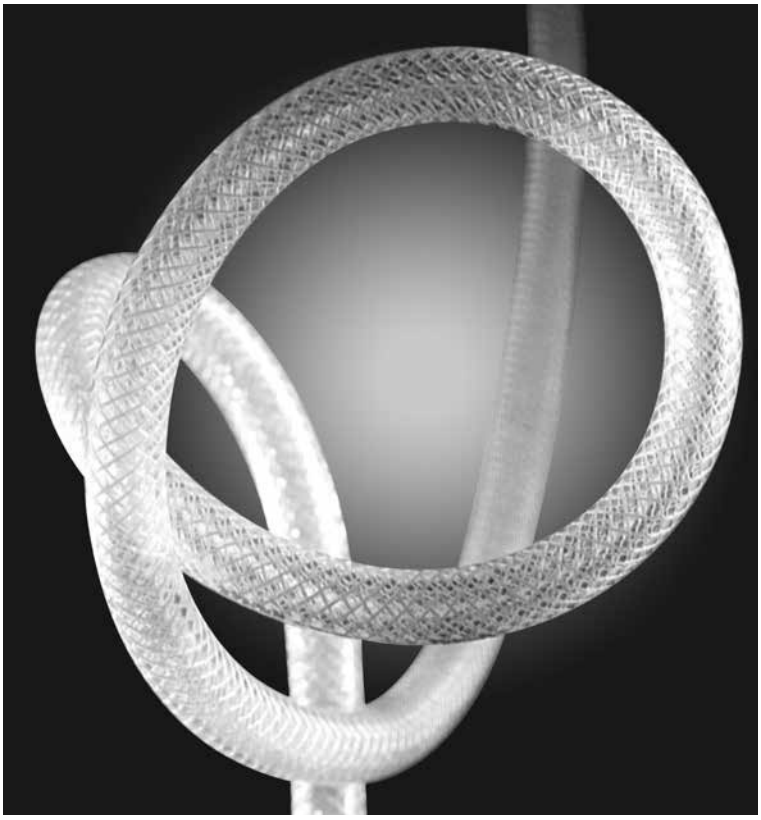
MILACRON®

DME
Every step of the way

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

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	

QUANTITY DISCOUNT

Discount applies to current prices:

100–299	less 5%
300–599	less 8%
600+	less 15%

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				

QUANTITY DISCOUNT

Discount applies to current prices:

100–299	less 6%
300+	less 13%

U.S. 800-626-6653 • Canada 800-387-6600 • Mexico 52-442-7135666 • Worldwide +1-248-398-6000
DME@dme.net • www.dme.net/industrialsupplies • DME price list: www.dme.net/prices

Nylon Recoil

MILACRON®
DME
Every step of the way

A quality, permanently coiled hose made of tough abrasion-resistant Nylon 11. This hose will provide a long service life at temperatures to 170°F and pressures to 200 PSI. The coil hose assemblies are resistant to most chemicals, including hydrocarbons, ketones, esters and alkalies.

Yellow Color!

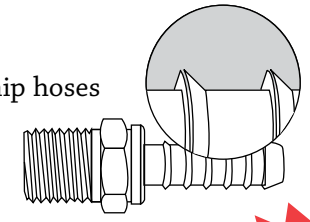
Nylon Recoil

Part Number	Hose Size	Male Swivels	Hose Length	Retracted Length
RC04-12S	¼″	¼″	12′	5″
RC04-25S	¼″	¼″	25′	10″

QUANTITY DISCOUNT
Discount applies to current pricing:
10+ less 6%

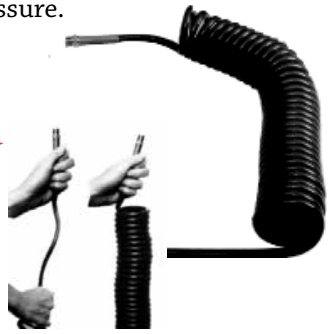
Polyurethane Recoil

- 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



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.

Orange Color!



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.

QUANTITY DISCOUNT
Discount applies to current pricing:
10+ less 6%

E

Tool Balancing System

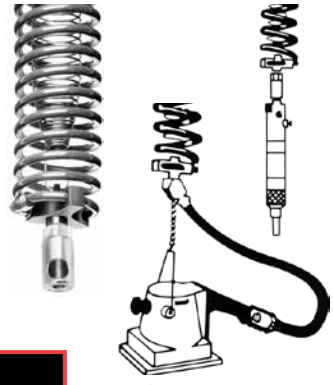
Helicol-Combi®

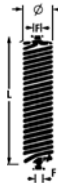
Applications

Balancing and supplying portable pneumatic tools:

- On pre-assembly workstations
- On spot-welding and riveting stations
- On packaging lines - staplers, hoop binders, nailing heads

Two functions of balancing and supplying compressed air in one single integrated vertically suspended apparatus. Fitted with a robust safety chain which prevents the spring from being strained - a safe form of suspension for larger air-driven tools.





Helicol-Combi female threaded end-piece

Part Numbers	Tube Ø	Length L	Length Max. Extension	Thread F	Coil Ø	
HEC2002	¼"	10"	40"	¼ FPT	3⅛"	For tools up to 4.5 LBS
HEC5002	⅜"	15"	70"	⅜ FPT	4"	For tools from 4.5 to 11 LBS

MILACRON® 1400 Silicone Duct

DME Every step of the way

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

“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″

QUANTITY DISCOUNT

Discount applies to 1400 silicone duct current pricing:

2–4 sections less 2%
5 or more sections less 5%

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 increments

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

Part Number	Hose I. D.
1500-2	2″
1500-3	3″
1500-4	4″
1500-5	5″
1500-6	6″

Silicone Dryer Hose

MILACRON®

DME
Every step of the way

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

Sold in 12 foot sections *(except where noted)*

Single-Ply Silicone Duct — Rated to 600° F (500° continuous)

Part Number	Hose I. D.	Working Pressure	Stock Length
NSD1-114	1¼″	20	12′
NSD1-112	1½″	15	12′
NSD1-134	1¾″	13	12′
NSD1-134-20	1¾″	13	20′
NSD1-2	2″	10	12′
NSD1-2-20	2″	10	20′
NSD1-225	2¼″	10	12′
NSD1-212	2½″	10	12′
NSD1-3	3″	10	12′
NSD1-4	4″	8	12′
NSD1-5	5″	6	12′
NSD1-6	6″	4	12′
NSD1-8	8″	3	12′
NSD1-10	10″	2	12′

Other sizes by request. 20′ lengths may be available in other sizes but are not stocked.
Hose sold only in lengths of 12′ or 20′ as listed in last column.

Sold in 12 foot sections *(except where noted)*

Double-Ply Silicone Duct — Rated to 600° F (500° continuous)

Part Number	Hose I. D.	Stock Length	Working Pressure
NSD2-114	1¼″	12′	60
NSD2-112	1½″	12′	55
NSD2-134	1¾″	12′	55
NSD2-2	2″	12′	50
NSD2-212	2½″	12′	45
NSD2-3	3″	12′	45
NSD2-4	4″	12′	40
NSD2-5	5″	12′	35
NSD2-6	6″	12′	30

Other sizes on request.

QUANTITY DISCOUNT

Discount applies to current pricing:

6 to 8 sections less 3%
9 or more sections less 6%

E

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

Same day shipping!

QUANTITY DISCOUNT

Discount applies to current pricing:

6 to 9 sections less 3%
10 or more sections less 6%

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

Sold in 25 foot sections

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

QUANTITY DISCOUNT

Discount applies to current pricing:

2 to 3 sections less 7%
4 or more sections less 14%

Vacuum Loader Hose

MILACRON®

DME
Every step of the way

- 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 Grounded Loader Hose

E

- 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

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

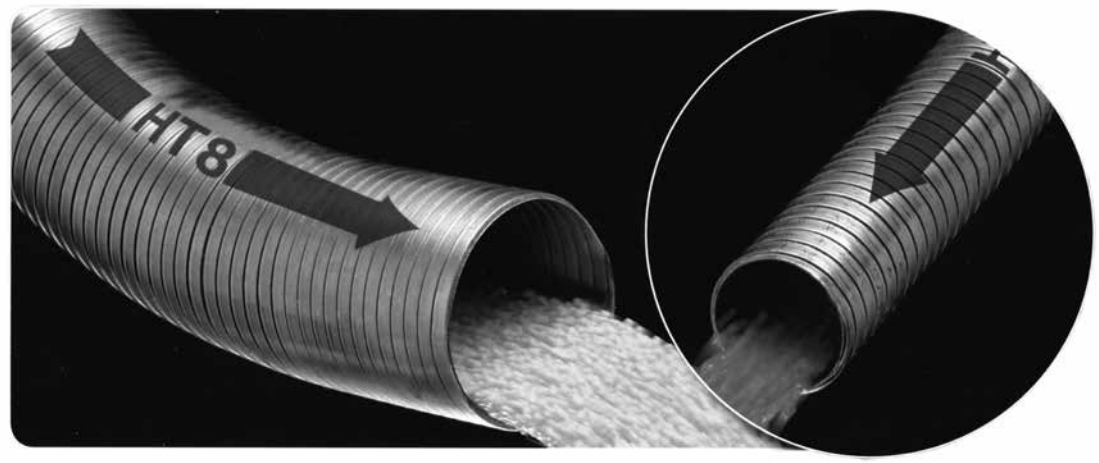
Part Number	Inside Diameter	Vacuum Rating At 68°F Hg	Minimum Bend Radius	Max. W.P. At 68°F
H1175G20	1¼″	28″	5″	50
H1175G24	1½″	28″	5″	50
H1175G28	1¾″	28″	5″	45
H1175G32	2″	28″	5″	40
H1175G40	2½″	28″	6″	40

QUANTITY DISCOUNT

Discount applies to current pricing:

2 to 3 sections less 4%
4 or more sections less 7%

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

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

Stainless Hose Clamps

Tridon®

MILACRON®

DME Every step of the way

TRIDON®

Standard 100% Stainless Hose Clamps

SHC Clamps

- Unique interlocking design
- One-piece housing & band
- Slotted carbon chromate plate

Clamp Materials

- Band - ½" 301 stainless
- Housing - 301 stainless

More sizes than the competition! Low prices!

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

E

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

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
- Screw 1/4" 410 stainless hex head

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

QUANTITY DISCOUNT

Discount applies to all Tridon clamps current pricing:

100+ less 4%

Oetiker 1 & 2 Ear Clamps

- No retightening needed
- Install quickly
- Allows tight installations
- No clamp creeping

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		8.1 – 11.0	0.319 – 0.433
	ECS0811	8.0 – 11.0	0.315 – 0.433
EC1113		10.8 – 13.0	0.425 – 0.512
	ECS1113	11.0 – 13.0	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		18.0 – 22.0	0.709 – 0.866
	ECS1922	18.1 – 22.0	0.713 – 0.866
EC2023		19.0 – 23.0	0.748 – 0.906
	ECS2023	19.1 – 23.0	0.752 – 0.906
EC2225		21.0 – 25.0	0.827 – 0.984
	ECS2225	21.1 – 25.0	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

QUANTITY DISCOUNT

Discount applies to 1 and 2 Ear clamps current prices:

6 or more bags less 10%

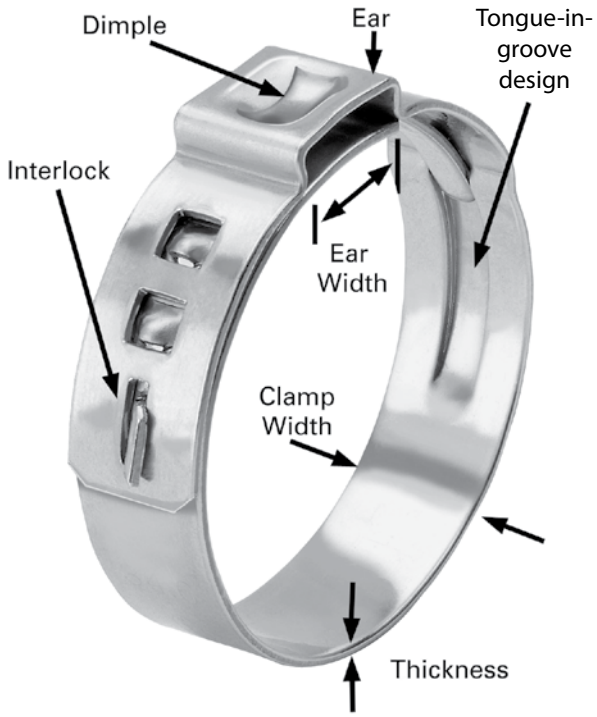
Stepless Ear Clamp

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

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



E

Pincers & Service Kits

Oetiker®

Service Kits - Zinc-Plated, 2-Ear Clamps

Kit number SK1098 - contains model 1098I pincers & clamps listed below. Low cost - handy!

SK-1098

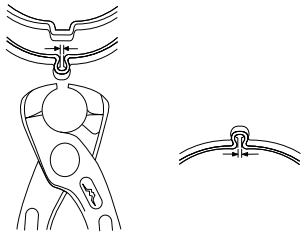
Kits contain 15 of each of the following zinc-plated 2-Ear Clamps: 5/16", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 15/16", & 1"

Great for confined areas!

Model Number 1098-I
Oetiker Straight Jaw Pincers

Model Number 1099-I
Oetiker Side Jaw Pincers

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 Remove:

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

For Hose, Tubing and Cable

MILACRON®

DME
Every step of the way

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.

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″

QUANTITY DISCOUNT

Discount applies to T-Clip and Spacer current prices:

21–99	**less 4%**
100+	**less 7%**

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.

E

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:

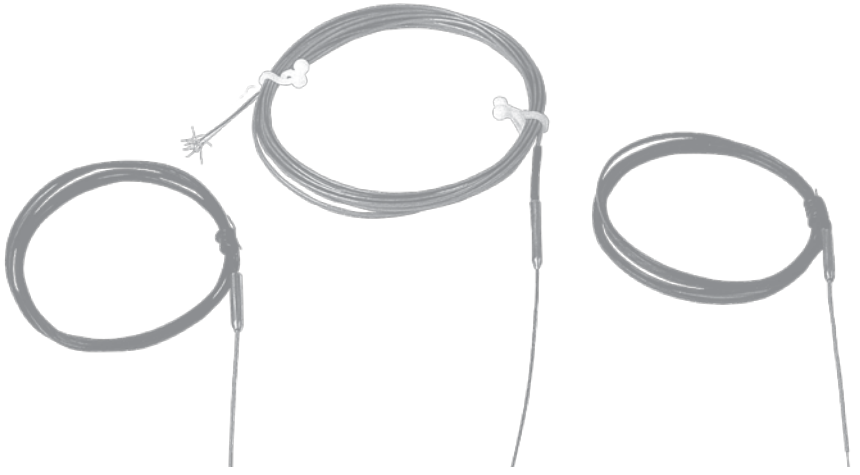
- Temperature range: –105°F to +190°F
- Abrasion resistance – M6 loss per M cycles: 20
- Di-Electric constant T-D-50: 2.6
- Tensile strength @ 73°F-D-412-51T PSI: 1800
- Specific gravity - D792-50: 0.93
- Material: polyethylene

Better quality than competitive products!

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′
HT12C2	3/8 to 4″	1/2″	.062	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.

Melt Pressure Gauges



High Temp Miniature Thermocouples