



INDUSTRIAL PRODUCTS CATALOG



www.demaeng.com

DEMA has a wide variety of industrial products,
Solenoid Valves, Float Valves, Strainers, Pumps, and Injectors
to fit a range of industrial applications in the
Food & Beverage, Carwash, Brewing, Machining,
and Industrial Cleaning industries.

STRATEGY STATEMENT



Customized Solutions

Customization at DEMA could mean anything from a custom label to a fully custom product. We will use our customized solutions to help build and enhance our customers' brands.

Industry Experience

One of DEMA's competitive advantages is the breadth and depth of our experience we have within our customers' industries. This enables us to solve problems our competitors (and sometimes even our customers) can't. We are better able to develop and implement customized solutions that create value for our customers.

Flexible & Responsive Operations

We welcome the opportunity to develop customized solutions that meet the unique needs of our customers. Each department at DEMA has a role in making this flexibility possible:

- The Sales team makes accessibility a high priority. They aren't just selling a product – they serve as valuable consultants throughout the relationship.
- Engineering regularly and proactively interacts with customers – not just when there are problems.
- Marketing effectively helps customers capitalize on the opportunity to enhance their branding and differentiation through DEMA's products.
- Manufacturing adeptly handles prototyping, quick turns, custom pack-outs. DEMA offers lower minimum order quantities and stronger build-to-order capabilities than the competition.
- Quality Control is dedicated to continuous improvement and avoiding potential issues before they occur.
- Calls to Customer Service and Technical Support are answered by knowledgeable representatives who are well-connected with the rest of the company so that the right resources are deployed quickly on customer requests.
- The Administrative teams play a vital role in enabling all other departments to exceed customer expectations.

Cultural Commitment to Customers' Success

All DEMA departments stay close to and interact with customers. We listen first. We recognize our customers rely on DEMA products in their businesses so we hold ourselves to the highest standards of service. We think long-term and prioritize relationships over short-term financial gain.



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Solenoid Valves

There are two basic types of solenoid valves. The most common is the normally closed type in which the valve opens when the coil is energized (when power is applied to the coil). The other type is the normally open valve which closes when the coil is energized.

Our valves are suitable for most industrial applications. They are ideal for water, air, light oil, noncorrosive and nonexplosive liquids. Valves are rated for 200°F/93°C fluid temperature and 120°F/49°C ambient temperature except for the Mini Diaphragm Valves which are rated for 180°F/82°C fluid and 120°F/49°C ambient. The molded waterproof coils have wiring options that include a junction box, spade, conduit and din. They have voltage options of 12VDC, 24VDC, and 24, 120, 208, and 240VAC 50/60 cycle on most models. Component materials are available in Buna N, EPDM, Viton, Teflon and Silicone. DEMA offers valves made from brass, stainless steel, Celcon, PVC, polypropylene and nylon. Stainless steel seats are standard on all pilot piston, diaphragm (except mini series), and high pressure valves. Valves may be mounted in any position except with the coil under the valve. Listed by Underwriter's Laboratories, Inc. (except high pressure valves, reference number available upon request).

Construction

DEMA solenoid valves are constructed to ensure long, trouble free life. They employ proven design features for reliable performance on all applications. Quality is maintained by strict control methods in all phases of production. Detailed testing of every valve produced during all stages of manufacturing is followed by 100% testing for body and seat tightness, electrical characteristics, and valve operation. All DEMA valves are manufactured in our Missouri plants.

Electrical

DEMA solenoid valves are available in many AC and DC voltage ratings. For ease of identification, coils are manufactured with the following lead wire, or body housing colors.

| | LEADS | | MOLDED SPADE |
|------------------|--------|---------------|--------------|
| 12 VDC/24 VDC | Black | 12 VDC/24 VDC | Black |
| 24/50-60 AC | Orange | 24/60 VAC | Blue |
| 120/50-60 AC | Blue | 120/60 VAC | Green |
| 208-240/50-60 AC | Red | 240/60 VAC | Red |

Leads on valves with a conduit boss and flying lead coils are 18" long while coil leads on valves with a junction box are 6" in length.

Direct Acting Valves

NORMALLY CLOSED

APPLICATION: Water, air, light oil, noncorrosive and non explosive liquids.

OPERATION: The stem and plunger assembly opens the port of the valve directly. Limited to the smaller valves with port sizes of less than 1/4 inch. Requires no minimum pressure to operate.

PIPE SIZE: 1/4" NPT

MOPD: Max 150 PSI Min 0 PSI

BENEFITS: Requires 0 PSI to open/close the valve because of operation

Valves rated 200F/93C fluid, 120F/49C ambient

* For Repair Kits see page 23



401P



492S
(with Din) 303 SS

| Model No. | Body | Seal | Orifice | CV |
|-----------|--------|---------|---------|------|
| 401P | Brass | Buna N | 7/64 | 0.27 |
| 492S-8 | 303 SS | *Buna N | 1/8 | 0.27 |
| 492SM-8 | 303 SS | *Buna N | 1/8 | 0.27 |

* Available with EPDM and Viton

** Metering Screw available to adjust flow through valve

Pilot-Piston Valves

NORMALLY CLOSED

APPLICATION: Water, air, light oil, noncorrosive and nonexplosive liquids.

OPERATION: The stem and plunger assembly opens the port. This releases the pressure on top of the piston, which moves upward and opens the main valve port.

- All pilot piston valves have stainless steel seats

BODY: Brass

SEAL: Teflon

MOPD: Max 150 PSI Min 3 PSI

BENEFITS: High durability, Industrial construction

Valves rated 200F/93C fluid, 120F/49C ambient

* For Repair Kits see page 23



412/A413P



A414P



A416P



A418P

| Model No. | Pipe Size | Orifice | CV |
|-----------|------------|---------|-----|
| *412P | 3/8 N.P.T. | 9/32 | 1.2 |
| A413P | 3/8 N.P.T. | 5/16 | 2.0 |
| *A414P | 1/2 N.P.T. | 7/16 | 3.1 |
| *A416P | 3/4 N.P.T. | 19/32 | 5.0 |
| *A418P | 1 N.P.T. | 3/4 | 8.0 |

* High Pressure valves available up to 450 PSI MOPD

NORMALLY CLOSED

Diaphragm Valves

NORMALLY CLOSED

APPLICATION: Water, air, light oil, noncorrosive and nonexplosive liquids.

Recommended for applications that have unfiltered fluid.

OPERATION: When energized, the plunger is pulled to the top plug, thus opening the small "pilot port" in the center of the diaphragm plate.

This releases the pressure on top of the diaphragm allowing incoming pressure to lift it off the large center port. When de-energized, the solenoid plunger is pushed from the top plug by the kick-off spring and closes the pilot port. Fluid passes through the diaphragm bleed hole until pressure is equalized on both sides of the diaphragm to shut off the large port.

All diaphragm valves have stainless steel seats

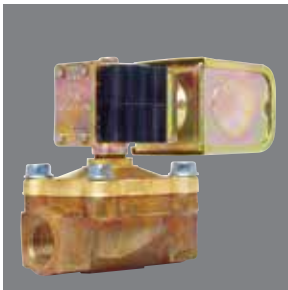
MOPD: Max 150 PSI Min 1 PSI

BENEFITS: Forgiving with contaminants in water

SEAL: BUNA Standard, Teflon available on most models

Valves rated 200F/93C fluid, 120F/49C ambient

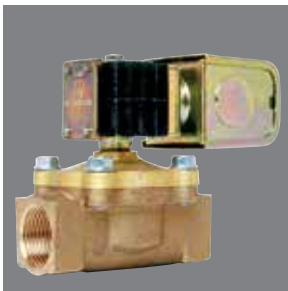
- Suitable for up to 10 psi steam, 240F/115C with Teflon Diaphragm, add suffix (T) for Teflon Diaphragm



473P



474P



476P



476PS

| Model No. | Pipe Size | Orifice | CV |
|-----------|------------|---------|------|
| 473P | 3/8 N.P.T. | 9/16 | 3.5 |
| 474P | 1/2 N.P.T. | 9/16 | 4.0 |
| 476P | 3/4 N.P.T. | 3/4 | 5.0 |
| 476PS | 3/4 N.P.T. | 3/4 | 5.0 |
| 478PS | 1" N.P.T. | 1" | 13.0 |

High Pressure Valves Up to 1200 psi

NORMALLY CLOSED

APPLICATION: Water

All valves have stainless steel pistons and seats.

(S) designates stainless steel sleeve

OPERATION: Same as a pilot operated valve except the pilot port is in a separate chamber from the piston. This allows the plunger to operate closer to the top plug with more force and consequently higher opening pressure.

BODY: Brass

SEAL: Teflon

MOPD: Max 1200 PSI Min 10 PSI

BENEFITS: Industrial design and stainless steel pistons make for a workhorse valve.

Valves rated 200F/93C fluid, 120F/49C ambient

For Valve Reference and Repair Kits see page 22



453P



454P



458P

| Model No. | Pipe Size | Orifice | CV |
|-----------|------------|---------|------|
| 453P | 3/8 N.P.T. | 11/32 | 1.8 |
| 453S | 3/8 N.P.T. | 11/32 | 1.8 |
| 454P | 1/2 N.P.T. | 1/2 | 3.7 |
| 458P | 1 N.P.T. | 15/16 | 11.1 |
| 458PS | 1 N.P.T. | 15/16 | 11.1 |

Mini Diaphragm Valves



NORMALLY CLOSED

APPLICATION: Water, air, light oil, noncorrosive & nonexplosive liquids. 60 mesh stainless steel filter on series 442 and 443, rated for 180°F/82°C fluid and 120°F/49°C ambient.

SEAL: Available with EPDM (Std), Viton

PRESSURE: Max 125 PSI Min 3 PSI

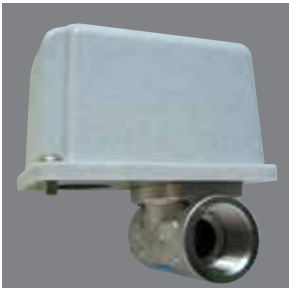
BENEFITS: Mini diaphragm valve is cost competitive and not sensitive to contaminants in water.



442P, 443P



P442, P443
NSF Std. 61, C-2 Approved



463PSJ
464PSJ
NSF Std. 61, C-2 Approved



P462, P463
NSF Std. 61, C-2 Approved



463PS, 464PS 303SS
NSF Std. 61, C-2 Approved



443PFB Flow Disc,
*Optional disc available

| Model No. | Body | Pipe Size | Orifice |
|----------------|---------------|------------------|---------|
| 442/443P | Brass | 1/4 & 3/8 N.P.T. | 1/4 |
| P442/P443 | Celcon | 1/4 & 3/8 N.P.T. | 1/4 |
| PP442 /3 | Polypropylene | 1/4 & 3/8 N.P.T. | 1/4 |
| P462/3 | Celcon | 1/4 & 3/8 N.P.T. | 1/4 |
| 463PS/464PS | 303 SS | 3/8 & 1/2 N.P.T. | 3/8 |
| 463PSJ/ 464PSJ | 303 SS | 3/8 & 1/2 N.P.T. | 3/8 |

Special Purpose Valves

NORMALLY CLOSED

APPLICATION: Water, air, light oil, noncorrosive and nonexplosive liquids.

BODY: PVC

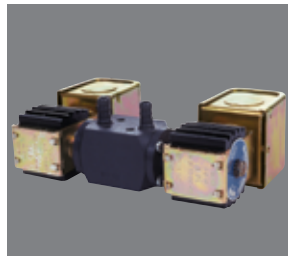
SEAL: EPDM (Std), Viton Standard 466P



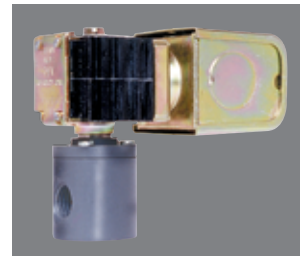
466P
Glass Filled Nylon



481P*
Direct acting diaphragm used on vacuum lines with corrosive liquids.



481-2 200 PSI maximum pressure
Injector mounted, dual inlet used with corrosive liquids. Can be mounted on all B and C series injectors.



482-2
Direct acting diaphragm used on vacuum lines with corrosive liquids, adjustable.

* Can be injector mounted by using Kit 24-50 for 1/4 inch metering knob (see page 15).

| Model No. | Max/Min Pressure | Orifice | CV |
|-----------|------------------|---------|------|
| 481P* | vacuum | 5/32 | 0.27 |
| 481-2 | vacuum | 5/32 | 0.27 |
| 482-2 | vacuum | 5/32 | 0.2 |
| 466P | 150 psi / 3 psi | 3/4 | 10.0 |

For Valve Reference and Repair Kits see page 22

MANIFOLD VALVES

Direct Acting Single Station and Manifold Valves

NORMALLY CLOSED

APPLICATION: Water, air, light oil, noncorrosive and nonexplosive liquids.

PIPE SIZE: 1/4" NPT

SEAL: Buna standard, EPDM & Viton available

303 Stainless steel single station round body valve

Metering screw available on 1/4"(NPT model).

Model No. No. Sta. Orifice CV Flow-Factor

Less Metering

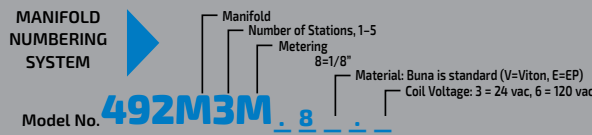
492S-8 1 1/8 0.27

With Metering

492SM-8-3 1 1/8 0.27

492SM-8-6 1 1/8 0.27

* available with Viton and EPDM



Manifold Valves

Brass

Stainless steel valves mounted on a solid brass manifold block.

Common inlet port for "fluid supply to all valves on both ends. Metering screw available."

Model No. No. Sta. Seal Orifice CV

Less Metering

492M1-8* 1 Buna N 1/8 0.27

492M2-8* 2 Buna N 1/8 0.27

492M3-8* 3 Buna N 1/8 0.27

492M4-8* 4 Buna N 1/8 0.27

492M5-8* 5 Buna N 1/8 0.27

*All styles available with metering **Available with Viton & EPDM

Stainless Steel

303 Stainless steel block. Common inlet port for chemical supply to all valves on both ends.

Model No. # Sta. Seal Orifice CV

Less Metering

492MSS2-8-3* 2 Buna N 1/8 0.27

492MSS3-8-3* 3 Buna N 1/8 0.27

492MSS4-8-3* 4 Buna N 1/8 0.27

492MSS5-8-3* 5 Buna N 1/8 0.27

*All styles available with metering **Available with Viton & EPDM

Diaphragm Manifold Valves

NORMALLY CLOSED

APPLICATION: Water, air, light oil, noncorrosive and nonexplosive liquids.

PIPE SIZE: 1/2" NPT inlets (2 per valve), 3/8" NPT Outlet

SEAL: Viton standard, EPDM available

COIL: DIN Coil standard, SPADE, Leaded Coil available

Model No. # Sta. Seal Orifice CV

464M3 3 EPDM 3/8 2.0

464M4 4 EPDM 3/8 2.0

464M5 5 EPDM 3/8 2.0

For Valve Reference and Repair Kits see page 22



492S Single Station



492M1M One Station



492MSS3 Three Station



492MSS4M Four Station



492M5M Five Station



464M Five Station

Normally Open Diaphragm Valves

APPLICATION: Water, air, light oil, noncorrosive & nonexplosive liquids.

BODY: Brass

SEAL: Buna

MOPD: Max 150 PSI Min 1 PSI

Valves rated 200F/93C fluid, 120F/49C ambient



O473P



O474P



O476P Shown with Din

| Model No. | Pipe Size | Orifice | CV |
|-----------|------------|---------|-----|
| O473P | 3/8 N.P.T. | 9/16 | 3.5 |
| O474P | 1/2 N.P.T. | 9/16 | 4.0 |
| O476P | 3/4 N.P.T. | 3/4 | 5.0 |

*Teflon Available

Normally Open High Pressure Valves Up to 1000 psi

APPLICATION: Water, air, light oil, noncorrosive & nonexplosive liquids. (S) designates stainless steel piston

BODY: Brass

SEAL: Teflon

MOPD: Max 1000 PSI Min 10 PSI

Valves rated 200F/93C fluid, 120F/49C ambient



O453P

| Model No. | Pipe Size | Orifice | CV |
|-----------|------------|---------|-----|
| O453P | 3/8 N.P.T. | 11/32 | 1.8 |
| O453S | 3/8 N.P.T. | 11/32 | 1.8 |

Normally Open Mini Diaphragm Valves

APPLICATION: Water, air, light oil, noncorrosive & nonexplosive liquids.

SEAL: EPDM, Viton available

PIPESIZE: 1/4" NPT, 3/8" NPT, 1/2" NPT

PRESSURE: Max 125 PSI Min 3 PSI

- Ideal for weep systems
- 442 and 443 series valves rated for 180°F/82°C fluid and 120°F/49°C ambient.



O442P/O443P



OP442/OP443
NSF Std. 61, C-2 Approved



OPP442/OPP443



O463PS/ O464PS

| Model No. | Body | Orifice | CV |
|---------------|---------------|---------|-----|
| OP442/ OP443 | Celcon | 1/4 | 1 |
| O442P/ O443P | Brass | 1/4 | 1 |
| OPP442 | Polypropylene | 1/4 | 1 |
| OPP443 | Polypropylene | 1/4 | 1 |
| O463PS/O464PS | 303 SS | 3/8 | 2 |
| O412P | Brass | 9/32 | 1.2 |
| OA414P | Brass | 7/16 | 3.1 |

SOLENOID COILS

Coil Options

Coils rated NEMA 1, Conduit and Din Coils NEMA 4



Din

#1 & #2 Coils



Junction Box

#1 & #2 Coils Only



Conduit

#1 & #2 Coils Only



Spade

#1 Coils Only



Molded Spade

#5 & #7 Coils Only

*Available on:
442 & 443 Series
P462, P463, P404J, 463PS
476PS, 464PS, 463PSJ,
464PSJ, 491S, 492S,
492SM, 491M's, and
492M's Series



Flying lead coil

#5 & #7 Coils Only

24 VAC and 120 VAC only
*Available on: 442 & 443
Series
P462, P463, P404J, 463PS,
476PS, 464PS, 463PSJ,
464PSJ, 491S, 492S, 492SM,
491M's, and 492M's Series

| Coil Designation | Voltage | Housing Color* | Lead Wire** |
|------------------|---------|----------------|-------------|
| 2 | 12VDC | Black | Black |
| 4 | 24 VDC | Black | Black |
| 3 | 24VAC | Blue | Orange |
| 6 | 120VAC | Green | Blue |
| 9 | 240VAC | Red | Red |

*For #5 & #7 Valves **For Coil #1 & #2

Connection Options



59-98 NEMA 4 Wiring

Connector for #5 & #7 Spade
Coils 18" Leads

*Other lengths available
on request



Din Female connector 41-77-100110

Additional connectors with
alternate size and wiring
available by special order



Din Wired 24" Female connector 41-77-100110-24-US

Additional wiring lengths available
by special order.

For More Information On Coils See Page 23

Y-Type Line Strainers

For use in waterlines ahead of solenoid valves, chemical injectors, spray nozzles, or any equipment where operation could be impaired by foreign matter.

Brass or Cast Bronze

For water applications and other liquids.

| Model No. | Size NPT |
|-----------|----------|
| *S2B | 1/4 |
| S3B | 3/8 |
| S4B | 1/2 |
| S6B | 3/4 |
| S10B | 1 |

*Add .40 for 40 Mesh

Add .80 for 80 Mesh

Maximum Pressure 300 psi at 150 F
150 psi at 375 F

- Large capacity screen has open area 3 times the pipe area
- Quick cleaning: screen assembly easily removed
- Corrosion resistant stainless steel screen
- 40 mesh (420 microns) or 80 mesh (177 microns) stainless steel wire screens available



S2B Forged Brass



S6B Forged Brass



S10B Cast Bronze

Delrin

For line pressure water applications and fluids corrosive to brass.

| Model No. | Size NPT |
|-----------|----------|
| S2P | 1/4 |
| S3P | 3/8 |

Maximum Pressure 125 psi at 180 F

- Large capacity screen has open area 3 times the pipe area
- Corrosion resistant: Delrin plastic body
- 100 mesh (150 microns) stainless steel screen
- FDA approved: All materials have FDA approval for use in food and beverage preparation equipment



S2P

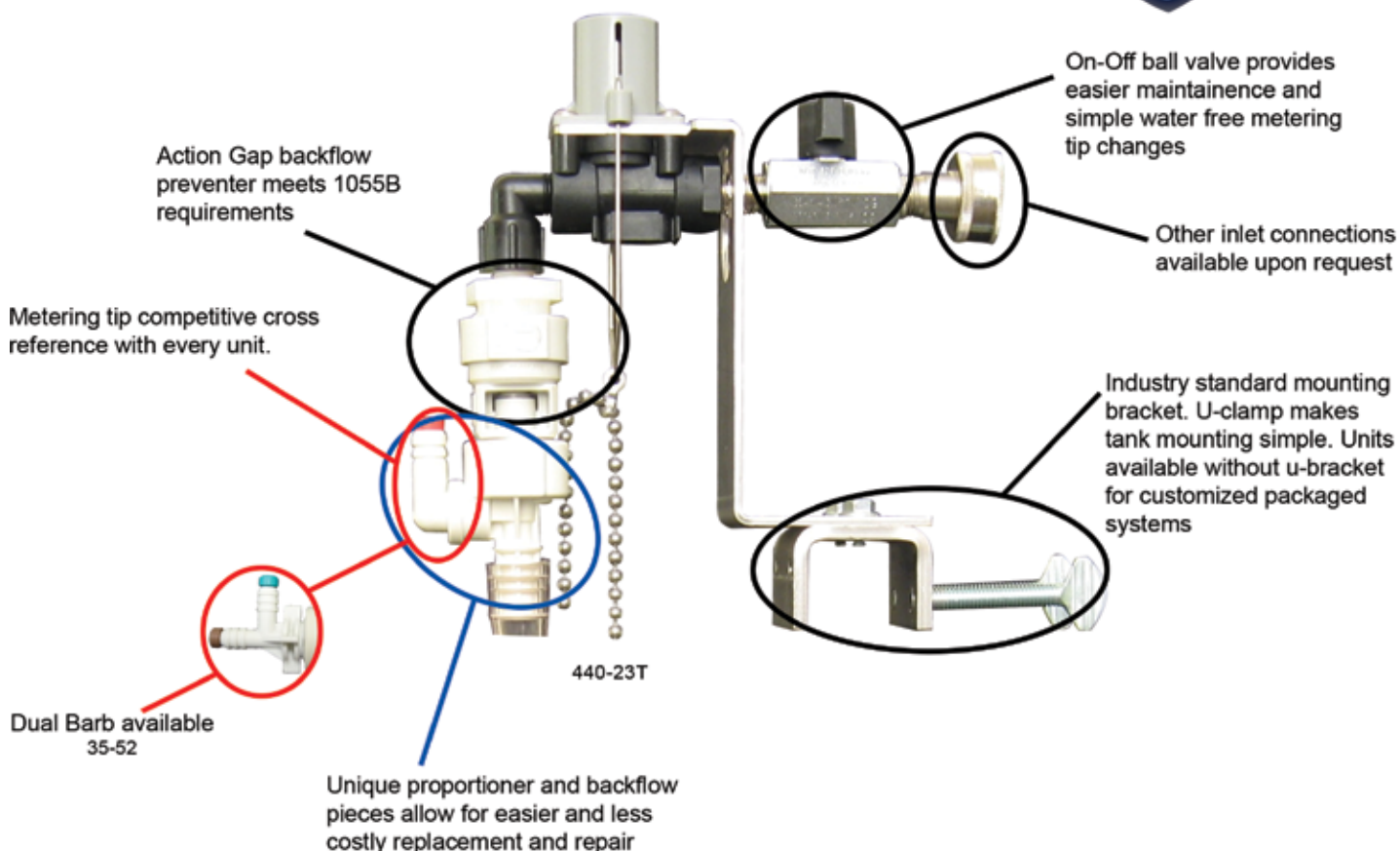


S3P

FLOAT VALVES

Float Valves

Automatically maintains a desired level of proportioned mixture in any drum, tank or other type reservoir. Magnetically activated "snap acting" float valves provide full water flow to activate the chemical proportioners. Ideal for car washes, carpet cleaning machines, and rapid filling of totes.



Chemical Proportioning

| Model No. | Seal | Pressure | Description | Flow Rate | Max. Induction | Min. Induction |
|-----------|--------|-------------------------|-------------------------------------------------------------------|-------------------|----------------|----------------|
| 440-23BT* | EPDM | Max 150 psi Min 15 psi. | float valve w/ small barb and tip | 4 GPM at 50 psi | 7:1 | 387:1 |
| 440-23T* | EPDM | Max 150 psi Min 15 psi | float valve w/ large barb and tip | 4 GPM at 50 psi | 4:1 | 430:1 |
| 440-22T* | EPDM | Max 150 psi Min 15 psi | Std. Hose. float valve w/ large barb & tip, no backflow preventer | 4 GPM at 50 psi | 4:1 | 430:1 |
| 440-24* | EPDM | Max 150 psi Min 15 psi | Std. Hose. float valve, high induction, medium flow | 2.5 GPM at 50 psi | 2:1 | 145:1 |
| 437P-21* | Buna N | Max 150 psi Min 15 psi | 3/4" N.P.T. float valve high flow, induction | 22 GPM at 50 psi | 10:1 | 512:1 |

* Add "X" to part number for units without U-Bracket for OEM mounting.

Water Fill Valve Systems

| Model No. | Connection | Description | Flow Rate |
|-----------|-------------|----------------------|-----------|
| 440N | Garden Hose | low flow water fill | 6.0 |
| 437PN | 3/4" NPT | high flow water fill | 64.0 |



437PN

Inline Chemical Injectors for injecting fluids or air into lines conveying liquid under pressure.

The DEMA injector is a jet pump. A liquid under pressure, usually water, enters the injector and accelerates into a jet through the nozzle. This high velocity jet creates a vacuum, which causes fluid to be drawn through the suction tube and into the injector. The mixture then flows into a diverging (diffuser) passage where pressure is recovered as the flow slows down. A portion of the energy of the water is imparted to the injected fluid so the reconverted pressure cannot be as high as the pressure supply. In effect the fluid is pumped into the water line; the reduction in pressure reflects the energy required to operate the "pump".

A minimum 35% pressure drop is required to create the vacuum.

Advantages of the Injector

Injectors have no moving parts, nothing to wear out or lubricate, resulting in extremely low maintenance. They are compact, needing no foundation or mounting bracket, and can be installed in any position. Injectors require no wiring, are self-priming and need no bleeding or filling. Injection rate is simple to set and can be quickly adjusted during operation. There is nothing to drain for seasonal shut down.

General Information

Standard C series have a molded Ryton knob with a stainless steel metering screw. For special requirements add the following suffixes to the model number.

- P: Special C20 stainless steel metering screw for highest corrosion resistance.
- S: Stainless steel knob for high pressures (over 700psi).
- T: Uses metering tip kit. (see page 12)

All injectors have a check valve to prevent backflow into the fluid container when there is no water flowing or while rinsing. An 8 ft. length of flexible vinyl suction tubing with a foot strainer is supplied.

Application and Selection

DEMA injector selection must be based on the water flow and pressure at the location where the injector is to be installed.

DO NOT size the injector by pipe size. If these quantities are known, choose correct model from Tables on pages 24 and 25.

If these quantities are not known, it is permissible to use spray nozzle rating at any pressure for selection. Once an injector has been matched to a spray nozzle system, it will continue to function regardless of fluctuations in line pressure, as the water flow will also fluctuate in proportion. Flow rating of 40 psi is the basis of the spray nozzle numbering system and is, therefore, most frequently used. Lengthy piping, hose, or other restrictions resulting in pressure loss must be added to the rated pressure before selection.

Injection Capabilities

Every injector is supplied with a metering screw or metering tips (T) for setting injection rates within maximum and minimum capacities shown in Tables. Maximum injections of viscous fluids (above 75cps) can be increased by ordering the high induction metering knob kit, p/n 24-56 (see below).

HIGH INDUCTION METERING KNOB KIT No. 24-56, 24-56T, 24-56S

Higher induction rates (especially of viscous liquids) can be obtained by replacing the standard metering knob with a high capacity metering knob and check valve parts.

DRUM MOUNTING KIT No. 24-32DM

Allows injector sizes up through 204C to be mounted directly on a drum or tote with a 2 inch bung.

DRUM MOUNTING KIT No. 23-26CDM, 23-26CTDM

Allows injector sizes 206C and 208C to be mounted on a drum or tote with a 2 inch bung.

C Series Injectors

Pressure:

Ryton metering knob and check valve core for high chemical resistance. 700 PSI (48 Bar) water at room temperature.
500 PSI (34 Bar) water at 150 degrees F (66 degrees C).
Stainless steel metering knob (S) for high pressure (700-3000 PSI or 48-204 Bar)

Chemical adjustment:

Metering screw standard on "C" Series injectors (i.e. 204C).
Metering tips are color-coded orifices of different sizes used to proportion the chemical (add a "T" to the model number (i.e. 204CT). Tip Kit ordered separately

Metering knob assembly (bolted onto the body with four screws) can be oriented in any direction for ease of access in tight spots. Small (1/4 inch barb) and large (3/8 inch barb) metering knobs are interchangeable on all inline injectors.



204C



208C

Each injector is supplied with 3 water nozzle bushings (Figure No. 1) for precise sizing of the injector to water flow within the ranges shown. Nozzle selection is specified in the installation instructions included with each injector. All injectors are equipped with a metering screw or metering tips "T" to adjust injection rate up to figures shown in tables (page 24).

| Model No. | Pipe Size | Max Inj | Flow at 300 PSI |
|-----------|-----------|-----------|-----------------|
| 200.3 | 1/8 NPT | 3oz/min | .37-.76 GPM |
| 200C | 1/8 NPT | 5oz/min | .76-1.5 GPM |
| 201C | 1/8 NPT | 7oz/min | 1.5-2.9 GPM |
| 202C | 1/4 NPT | 11oz/min | 2.9-6.0 GPM |
| 203C | 3/8 NPT | 21oz/min | 6.0-12 GPM |
| 204C | 1/2 NPT | 30oz/min | 12-24 GPM |
| 206C | 3/4 NPT | 55oz/min | 24-47 GPM |
| 208C | 1 NPT | 60 oz/min | 47-94 GPM |



100-15K

100-15K Tip kit
100-15KU Ultra lean tip kit
44-61P Capillary metering tip for lean dilutions



100-15KU

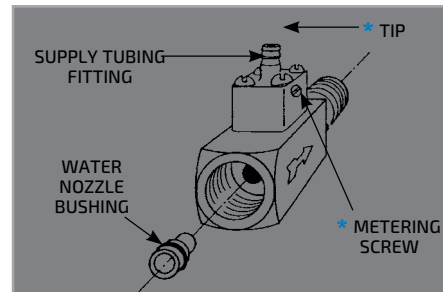


Figure No. 1

* Metering Knobs are either screw or tip type, not both.

PIPE ADAPTER KIT No. 24-50 FOR MOUNTING A VALVE ON THE INJECTOR CHEMICAL INTAKE BARB: Model 44-71 PVC Ball Valve or Model 481P Solenoid Valve (Figure No. 2)

May be placed in the chemical supply line to turn the chemical supply on or off. **DEMA Kit 24-50** slips over the metering knob barb and provides a 1/8" MNPT (Male National Pipe Taper) for the valves to screw directly onto the metering knob for models 200-3C through 204C. **Models 206 and 208** use metering knob part number 23-33-1.

Figure No. 2

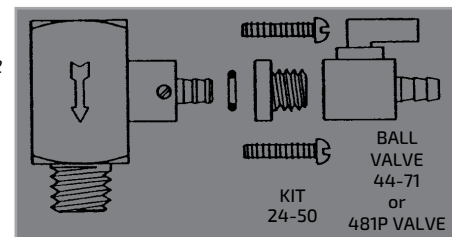


Figure No. 3

- MNPT Outlet (Male National Pipe Taper)
- Metering Knob
- Mounting screws
- Metering Tip (optional, add a "T" to the model number if you want metering tips for chemical adjustment)
- Metering Screw (is standard when metering tips are not specified)
- FNPT Inlet (Female National Pipe Taper)

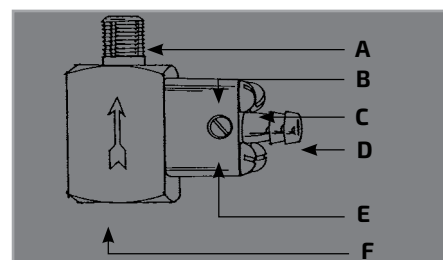


Figure No. 3

*For More Information See page 24

B Series Injectors

Externally adjustable injectors with external water flow ranges

- External adjusting screw for easy compensation to system variations.
- Efficiently adjusts to flow or pressure changes after installation.
- Allows system to operate at maximum performance level without a teardown.
- Useful in high pressure pump discharge line applications when it is desired to keep pressure loss to a minimum
- 23-32ST 3/8" SS Barb
- 24-32ST 1/4" SS Barb



Water flow
adjusting screw

204B

| Model No. | Pipe Size | Variant | Flow |
|-----------|------------|----------|---------|
| 202B | 1/4 N.P.T. | 8oz/min | .73–5.7 |
| 203B | 3/8 N.P.T. | 16oz/min | 1.4–11 |
| 204B | 1/4 N.P.T. | 30oz/min | 5.7–19 |
| 206B | 3/8 N.P.T. | 42oz/min | 11–39 |



All stainless steel version
of the 204B available with
metering tips.

204BS-2

303 SS (same flow as 204B)

All stainless steel version
of the 203B available with
metering tips.



203BS-2

303 SS (same flow as 203B)

Special Injectors for Corrosive Applications



A low cost chemical resistant unit. Seals can be customized to chemical being used in unit.

P203C

Polypropylene Plastic
(same flow as 203C with
11 nozzle bushing)
125 PSI maximum pressure

Rocket Injectors 210 Series Injectors

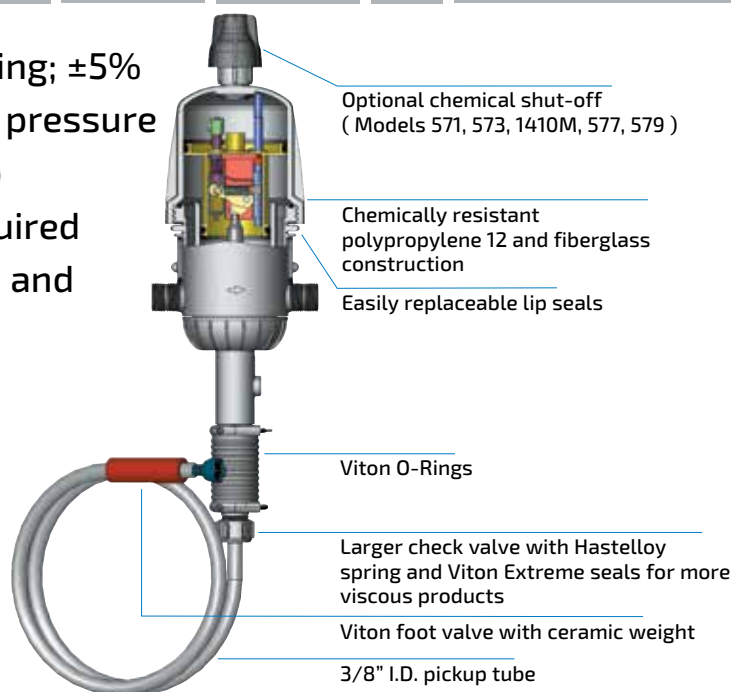
- Stainless Steel Body
- Polypropylene Injection Molded
- 316 SS Removable nozzle threaded into body
- Removable chemical barb
- Color coded chemical barb to orifice size in nozzle
- Dual barb available for multi-chemical injection



For More Information See Page 25

MixRite Water Powered Proportioning Pump

- Accurate Dispensing; $\pm 5\%$
- Uses only 20% of pressure to drive the pump
- No electricity required
- Low maintenance and easy to adjust



SPECIFICATIONS:

- Available with or without control valve that allows the shutoff of chemical while water is still flowing through the unit
- Injection rate from .1% to 10%
- Injection ratios from 1:1000 to 1:10
- Flows from .9 gpm to 14 gpm
- Water pressure from 2.9 psi to 120 psi
- Chemical resistant construction
- Includes 7 ft. inlet tubing and strainer
- Dimensions are 19 1/2" high, 7" wide
- 3/4" Hose barbs with swivel for easy installation included, or attach a 3/4" garden hose



571



14.CW.05



579IN

MixRite Models to meet your applications

FLOW RANGE .5-14 GPM (1.89-41.6 LPM)

OPERATING TEMP. 39F-122 F (4C-50 C) Note: Models 577 and 579 39F-104 F (4C-40C)

PRESSURE RANGE: 3-120 PSI

| MODEL | INDUCTION | | | OPTIONS |
|-------------|-----------------|------------|--------------|-----------------|
| 500 Series | Ratio | Percent | Oz/GAL | |
| 569 | 1000:1 to 111:1 | .1% to .9% | .13 to 1.5 | CW/CL PVDF |
| 570 | 500:1 to 50:1 | .2% to 2% | .25 to 2.5 | CW/CL PVDF |
| 571 | 500:1 to 50:1 | .2% to 2% | .25 to 2.5 | Chemical On/Off |
| 572 | 250:1 to 25:1 | .4% to 4% | .51 to 5.0 | CW/CL PVDF |
| 573 | 250:1 to 25:1 | .4% to 4% | .51 to 5.0 | Chemical On/Off |
| BYPASS | | | | |
| 577IN | 500:1 to 50:1 | .2% to 2% | .25 to 2.5 | Chemical On/Off |
| 579IN | 250:1 to 25:1 | .4% to 4% | .51 to 5.0 | Chemical On/Off |
| 14 Series | | | | |
| 14.CW.05 | 100:1 to 20:1 | 1% to 5% | 1.28 to 6.4 | |
| 1410A/1410M | 100:1 to 10:1 | 1% to 10% | 1.28 to 12.8 | |
| 1402A/1402M | 500:1 to 50:1 | .2% to 2% | .25 to 2.5 | |

INDUCTION RATIOS ARE BASED ON WATER THIN PRODUCTS (1CPS); HIGHER VISCOSITIES WILL AFFECT INDUCTIONS

MixRite Accessories



57-11-1 Tip Kit for Lean Dilution Ratios

750:1
1000:1
1500:1
2000:1

Includes 4 metering tips,
8 ft. 1/4" vinyl hose (not
shown) and 1/4"x 3/8"
barb adapter



50-41-1 Strainer

3/4"NPT Strainer with 80
micron filter cleans up any
installation and improves
water quality and length of
service for MixRite.

50-42

Replacement Mesh



294DC.DS

Central foam systems can be
built using any MixRite and
multiple drop station
dispensers throughout
a facility.



50-42-1

Tee adapter to induct two
chemicals simultaneously.



57-UFR - Low Flow Booster

Works with any 500 Series
MixRite to take low flows)
less than .9GPM) and allows
unit to work in conditions
without electricity.

57.20.8-3/4" Check Valve

Check Valve helps limit
backflow situations if unit
is being used to pump the
mixture a distance.



14 Series Units

Hastelloy Springs

Aflas Seals

Robust Design

14 GPM Capacity

Easy To Read
Chemical Adjustment

For Repair Kit Information See Page 25

DISPENSING EQUIPMENT

633 Blend Centers



633GAP-B1 3 MODEL 633GAP UNITS
SHOWN COUPLED TOGETHER

Blend Center's modular design lets you easily couple together any number of stations to create any system to meet your needs. Mix and match bottle and bucket fill and choose from blue, red, green, yellow, black, or white buttons. Models listed include Action Gap backflow. Use AG instead of GAP for air gap.

Model 633GAP-1

Action Gap backflow with 1 gpm (4 liters/minute) proportioner

Model 633GAP-4

Action Gap backflow with 4 gpm (16 liters/minute) proportioner

681 Blend Centers

681 units are stainless steel and plastic cover dispensers. Models listed below include 4 gpm (16 liters/minute) proportioners but can be ordered with any combination of high/low flow.



681GAP-3P



681GAP-2

| Station | Model No. | Cover Material |
|---------|-----------|-----------------|
| 1 | 681GAP-1 | Stainless Steel |
| 2 | 681GAP-2 | Stainless Steel |
| 2 | 681GAP-2P | Plastic |
| 3 | 681GAP-3 | Stainless Steel |
| 3 | 681GAP-3P | Plastic |
| 4 | 681GAP-4 | Stainless Steel |
| 5 | 681GAP-5 | Stainless Steel |

High Flow Fill Station

Model 607-3 High Flow Dispenser fills Auto Scrubbers and other large reservoirs at 10 gallons per minute (40 liters per minute) to reduce fill time.



607-3

- 10 gpm flow rate at 40 psi (3/4" or larger water supply required)
- Vacuum breaker installed
- 10 feet discharge hose
- Metering tips determine dilution ratio
- Stainless steel cover offers durability and industrial appearance
- PVC proportioner allows dual chemical injection

DEMA One



For products that can't use closed loop inserts, DEMA has developed an open feed portable dispenser designed for multiple product use. Based off the major design features of SafeLink One, the DEMA One incorporates those into an offering with a dip tube attachment. Sized for 38mm neck openings and will work with ½ gallon (2L), 1 gallon (4L), 2.5 gallon (5L) bottles and available for custom sized bottles as well, as required.

Dispensers

| Single Flow/Dilution | Model No. |
|-----------------------|-----------|
| Low Flow | DM1S.1 |
| High Flow | DM1S.3 |
| Basic Spray | DM1SS.1 |
| Premium Spray | DM1SS.2 |
| Multi Flow/Dilution | |
| High Flow | DM1D.1 |
| Basic Spray w/Rinse | DM1D.2 |
| Premium Spray w/Rinse | DM1DS.4 |

302 Series Hand Pump

Designed to pump 1 or 2 ounces (30 or 60 milliliters) of detergent, sanitizer, or other chemical into kitchen sink, bottle, dry cleaning machine, or any open container where chemical is mixed with water. Each push delivers 1 or 2 ounces with the pump automatically maintaining its prime for future use.



302-1E

Features and Benefits

- 1 or 2 ounce pumps available (30 or 60 milliliters)
- Polypropylene body and polyethylene bellows for chemical resistance
- Epdm, silicone, or viton seals available on check valves
- Chemical does not come in contact with spring
- Mounts on any vertical or horizontal surface
- Optional spout available (part number 30-81-1)

302-2S-SP

| MODEL No. | FLOW | CHECK VALVE SEAL |
|-----------|-----------------|------------------|
| 302-1E | 1 ounce (30 ml) | EPDM |
| 302-1S | 1 ounce | Silicone |
| 302-1V | 1 ounce | Viton |
| 302-2E | 2 ounce (60 ml) | EPDM |
| 302-2S | 2 ounce | Silicone |
| 302-2V | 2 ounce | Viton |

Drum Mount Dispensers

Model 161 and 162 Series drum mount dispensers mount to any 2 1/2" bung opening to dispense chemical solution directly from the drum or tote at the correct dilution. Various models are available to meet standard and high induction applications.

Model 162 Standard model dispenses 5 gpm (20 liters per minute) with maximum induction of 5-1, metering screw adjustment.

Model 162-3 Standard model dispenses 5 gpm with a maximum induction of 5-1, metering tip adjustment.

Model 161 High induction model dispenses 5 gpm with a maximum induction of 1.5-1, brass construction with metering screw adjustment.

Model 162HC High induction model dispenses 1/2 gallon per minute (2 liters per minute) with a maximum induction of more than 1-1 ratio. Ideal dispenser for applications such as antifreeze mixing where more product than water is required.

Model 162HDM-2 High Flow Drum Mount Proportioner mounts directly to a 2 1/2" bung opening on a drum or tote and dispenses at 10 gallons per minute (40 liters per minute). Draws up to 12 ounces per gallon chemical solution and discharge hose can be up to 25 feet (8 meters) long. Shutoff valve (DEMA #90-15) can be put at end of hose for on/off control and uses metering tips to determine dilution ratio.



162HDM-2



162HC



162

Compressed Air Foamers

Model 294D

PVC Compressed Air Foamer body with air inlet port, air adjustment gauge, water inlet connection and tubing for chemical supply. Simply hook up compressed air and water and adjust to produce desired foam. Metering tips determine correct chemical dilution. Minimum recommended air and water pressure with 25 feet of hose is 40 psi.



294D



294DC

Model 294DC

Designed for applications that require a compressed air foamer enclosed in a Stainless Steel housing and ball valves for on/off control of water and air. Air pressure guage is seen through front cover and easily adjusted while the unit is mounted. Metering tips determine the correct chemical dilution.

Model 93-18

PVC Foam wand used with all DEMA compressed air foamers. Includes water inlet coupling, ball valve for on/off control nozzle. Foam throw varies based on water and air pressure mixture. Average throw is 25 feet (8 meters).



93-18

Foam Accessories



28-1QD & 292GQD

Spray Gun and Foam Wand set (order items separately)



40-14QD/292QD

Spray Gun and Foam Wand



44-3N-25

25 Feet (8 meters) nylon braided outlet hose

44-3

25 Feet (8 meters) black outlet hose

44 3RG (shown)

25 Feet (8 meters) red outlet hose



44-3N-6

6 feet (2 meters) nylon braided water supply hose

44-3-6 (shown)

6 feet (2 meters) black water supply hose

44-4S

Stainless Steel hose bracket



900 WALL

900 Wall Mounted Foaming Dispenser

The 900-WALL operates with a pre-mix solution of foaming chemical and water. The unit produces 30 gallons of foam per minute and covers 5-10 cubic feet per minute at 40-80 PSI with up to 35 feet of foam distance.



900 2LHH

The 900 2LHH is a small 2 liter handheld foamer. This is great for spot cleaning and foaming in small applications. This unit could be used in detail shops, for tire cleaning, in food and beverage sanitation, or any use where spray and foaming is needed.



900-2PU

Pump Up Foaming Dispenser

The 900-2PU pump-up foamer technology provides spot cleaning and sanitation solutions for the industrial and institutional markets. Draws the chemical and air from the tank creating thick foam when mixed at the trigger operated foam wand.



900 DS4

Doorway Foaming Sanitizer System.

The 900-DS4 Doorway sanitizer foaming system allows the control box to be mounted up to 150 feet away from the spray tip assembly. The new foam enhancing nozzle is constructed of Stainless Steel and produces large amounts of foam. This allows for shorter run times and a larger foam coverage area. The 900-DS4 can operate up to three nozzle assemblies simultaneously.

CUSTOM SOLUTIONS

At DEMA, Custom Solutions come in an array of packages. We have a full engineering staff to meet all the needs of our customers. We think there are several advantages to partnering with us to find a solution that meets our customers' needs.

We are Collaborators.

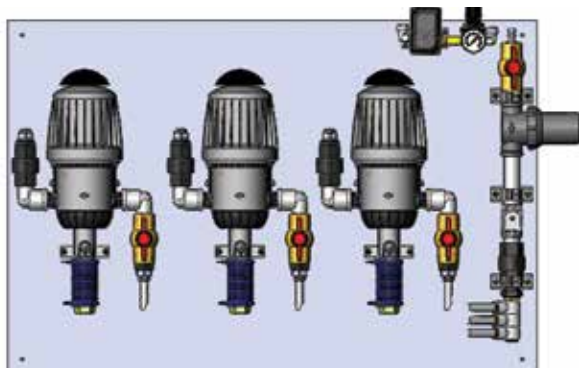
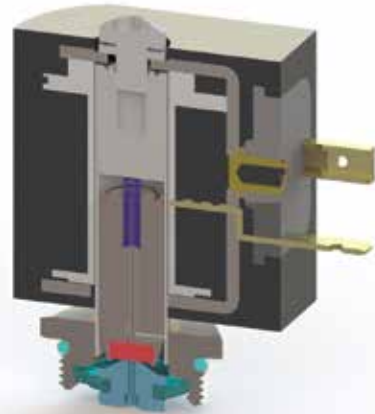
We partner with our customers in a variety of ways to effectively promote their brand they have been building. We take the utmost care to provide quality custom solutions to our partners to help them speed up manufacturing, time to market, and produce quality products their customer's need to have. Our marketing staff effectively helps our customers capitalize on the opportunity to enhance their brand and differentiate themselves from their competition.

We are Manufacturers.

All of our manufacturing is done here in Saint Louis, Missouri. We have a full machine shop to support our design work as we go through iterations of designs to test for life cycle, form, fit, and function. We can easily customize a unit with our manufacturing group from changing a pack out to changing a diaphragm. Customization at this level means that we have the most flexible operations for our customers to be able to get the exact product they need at exactly the moment they need it.

We are Designers.

We utilize the deep industry knowledge of our sales staff, engineering team, and customers to come up with innovative designs. We continually look for ways to improve upon our products and we are set up to quickly turnaround any design we have in house. We can easily start from scratch on a new design for our customer's specific needs in any application or tailor an existing design to meet different applications' needs.



Definitions

| | |
|------------------|-------------------------------------------------------------------------------------------------------|
| MOPD | Maximum Operating Pressure Differential Maximum differential against which solenoid valve can open |
| MRP | Maximum Rated Pressure Maximum pressure which can be applied to the valve |
| GPM | Gallons per minute flow |
| PSIG | Pounds per square inch gauge |
| CV (Flow Factor) | Quantity of 60F/16°C water in GPM that will pass through a valve with a PSIG drop of one. |

To find the gpm of a valve multiply the rated CV (flow factor) by the square root of the pressure drop across the valve.

| | |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| GPM = | $\sqrt{(\text{CV flow factor}) \times \text{pressure drop across valve}}$ |
| CV Flow Factor= | $= \frac{\sqrt{(\text{GPM}) : \text{pressure drop (PSIG)}}}{\left(\frac{\text{GPM}}{\text{CV}}\right)^2}$ |
| Pressure Drop (PSIG)= | |
| Gravity PSI = | .432 x height (in feet) |
| Centipoise (CPS), | 1 Water |
| Viscosity of fluid | 75 10 weight oil |
| | 200 30 weight oil |
| | 500 Honey |

SEAL MATERIAL

Buna N (-40°F/-40°C to 250°F/120°C)

EPDM (-60°F/-50°C to 300°F/150°C)

Viton (-20°F/-29°C to 400°F/205°C)

Teflon -75°F/-60°C to 450°F/230°C

GENERALLY RESISTANT TO:

oil, grease, hydraulic fluids, water, alcohols

animal and vegetable oils, ozone, oxidizing chemicals. (Not to be used with petroleum based fluids)

resistant to swelling (citrus based products)

extreme temperatures

METRIC CONVERSIONS:

| To go from | Multiply by | To get | To go from | Multiply by | To get |
|------------|-------------|-------------|-------------|-------------|------------|
| Gallons | 3.785 | Liters | Liters | 0.2642 | Gallons |
| Ounces | 29.57 | Milliliters | Milliliter | .034 | Ounces |
| PSI | 0.068 | Bar | Bar | 14.5 | PSI |
| Inches | 25.4 | Millimeters | Millimeters | 0.0394 | Inches |
| Fahrenheit | 5/9(F-32) | Celsius | Celsius | 9/5C+32 | Fahrenheit |

Solenoid Valve Information

| Valve Model Number | Action | Pressure Differential | | | | Body Material | Orifice Dia. Inches | | Pipe Size N.P.T. | CV Flow Factor # | GPM @ 60 psi (cv # x sq. root psi) | Liters/M@ 4.08 bar | Page Number |
|-----------------------------------|---------------------------------------|-----------------------|---------|---------|---------|--------------------|---------------------|------|------------------|------------------|------------------------------------|--------------------|-------------|
| | | max psi | min psi | max bar | min bar | | | | | | | | |
| Standard Duty | | | | | | | | | | | | | |
| 401P | Direct | 150 | 0 | 10.2 | 0 | BRASS | 7/64 | .109 | 1/4 | 0.27 | 2.09 | 7.92 | 3 |
| 412P | Pilot-Piston | 150 | 1 | 10.2 | 0.068 | BRASS | 9/32 | .281 | 3/8 | 1.20 | 9.30 | 35.20 | 3 |
| A413P | Pilot-Piston | 150 | 3 | 10.2 | 0.204 | BRASS | 5/16 | .313 | 3/8 | 2.00 | 15.50 | 58.67 | 3 |
| A414P | Pilot-Piston | 150 | 3 | 10.2 | 0.204 | BRASS | 7/16 | .438 | 1/2 | 3.10 | 24.03 | 90.93 | 3 |
| A416P | Pilot-Piston | 150 | 3 | 10.2 | 0.204 | BRASS | 19/32 | .593 | 3/4 | 5.00 | 38.75 | 146.67 | 3 |
| A418P | Pilot-Piston | 150 | 3 | 10.2 | 0.204 | BRASS | 3/4 | .750 | 1 | 8.00 | 62.00 | 234.67 | 3 |
| Mini Valves Normally Closed | | | | | | | | | | | | | |
| 442P | Diaphragm | 125 | 3 | 8.5 | 0.204 | BRASS | 1/4 | .250 | 1/4 | 1.00 | 7.75 | 29.33 | 5 |
| 443P | Diaphragm | 125 | 3 | 8.5 | 0.204 | BRASS | 1/4 | .250 | 3/8 | 1.00 | 7.75 | 29.33 | 5 |
| P442 | Diaphragm | 125 | 3 | 8.5 | 0.204 | CELCON | 1/4 | .250 | 1/4 | 1.00 | 7.75 | 29.33 | 5 |
| P443 | Diaphragm | 125 | 3 | 8.5 | 0.204 | CELCON | 1/4 | .250 | 3/8 | 1.00 | 7.75 | 29.33 | 5 |
| P462 | Diaphragm | 125 | 3 | 8.5 | 0.204 | CELCON | 1/4 | .250 | 1/4 | 1.00 | 7.75 | 29.33 | 5 |
| P463 | Diaphragm | 125 | 3 | 8.5 | 0.204 | CELCON | 1/4 | .250 | 3/8 | 1.00 | 7.75 | 29.33 | 5 |
| Mini Valves Normally Open | | | | | | | | | | | | | |
| OP442 | Diaphragm | 125 | 3 | 8.5 | 0.204 | CELCON | 1/4 | .250 | 1/4 | 1.00 | 7.75 | 29.33 | 7 |
| OP443 | Diaphragm | 125 | 3 | 8.5 | 0.204 | CELCON | 1/4 | .250 | 3/8 | 1.00 | 7.75 | 29.33 | 7 |
| O442P | Diaphragm | 125 | 3 | 8.5 | 0.204 | BRASS | 1/4 | .250 | 1/4 | 1.00 | 7.75 | 29.33 | 7 |
| O443P | Diaphragm | 125 | 3 | 8.5 | 0.204 | BRASS | 1/4 | .250 | 3/8 | 1.00 | 7.75 | 29.33 | 7 |
| OPP442 | Diaphragm | 125 | 3 | 8.5 | 0.204 | GLASS FILLED POLY | 1/4 | .250 | 1/4 | 1.00 | 7.75 | 29.33 | 7 |
| OPP443 | Diaphragm | 125 | 3 | 8.5 | 0.204 | GLASS FILLED POLY | 1/4 | .250 | 3/8 | 1.00 | 7.75 | 29.33 | 7 |
| Diaphragm Valves Normally Closed | | | | | | | | | | | | | |
| 463PS | Diaphragm | 150 | 3 | 10.2 | 0.204 | 303 SS | 3/8 | .375 | 3/8 | 2.00 | 15.50 | 58.67 | 5 |
| 464PS | Diaphragm | 150 | 3 | 10.2 | 0.204 | 303 SS | 3/8 | .375 | 1/2 | 2.00 | 15.50 | 58.67 | 5 |
| 466P | Diaphragm | 150 | 3 | 10.2 | 0.204 | GLASS FILLED NYLON | 3/4 | .750 | 3/4 | 10.00 | 77.50 | 293.34 | 5 |
| 473P | Diaphragm | 150 | 1 | 10.2 | 0.068 | BRASS | 9/16 | .563 | 3/8 | 3.50 | 27.13 | 102.67 | 4 |
| 474P | Diaphragm | 150 | 1 | 10.2 | 0.068 | BRASS | 9/16 | .563 | 1/2 | 4.00 | 31.00 | 117.34 | 4 |
| 476P | Diaphragm | 150 | 1 | 10.2 | 0.068 | BRASS | 3/4 | .750 | 3/4 | 5.00 | 38.75 | 146.67 | 4 |
| 476PS | Diaphragm | 150 | 1 | 10.2 | 0.068 | 303 SS | 3/4 | .750 | 3/4 | 5.00 | 38.75 | 146.67 | 4 |
| 478PS | Diaphragm | 150 | 1 | 10.2 | 0.069 | 303 SS | 1 | 1 | 1 | 13.00 | 100.70 | 381.K | 4 |
| Diaphragm Valves Normally Open | | | | | | | | | | | | | |
| O463PS | Diaphragm | 150 | 3 | 10.2 | 0.204 | 303 SS | 3/8 | .375 | 3/8 | 2.00 | 15.50 | 58.67 | 7 |
| O464PS | Diaphragm | 150 | 3 | 10.2 | 0.204 | 303 SS | 3/8 | .375 | 1/2 | 2.00 | 15.50 | 58.67 | 7 |
| O473P | Diaphragm | 150 | 1 | 10.2 | 0.068 | BRASS | 9/16 | .563 | 3/8 | 3.50 | 27.13 | 102.67 | 7 |
| O474P | Diaphragm | 150 | 1 | 10.2 | 0.068 | BRASS | 9/16 | .563 | 1/2 | 4.00 | 31.00 | 117.34 | 7 |
| O476P | Diaphragm | 150 | 1 | 10.2 | 0.068 | BRASS | 3/4 | .750 | 3/4 | 5.00 | 38.75 | 146.67 | 7 |
| Corrosive Liquids | | | | | | | | | | | | | |
| 481P | Direct-Dia. | vac | | | | PVC | 5/32 | .172 | 1/8 | 0.27 | 2.09 | 7.92 | 5 |
| 481-2 | Direct-Dia. "injector, dual inlet" | vac | | | | PVC | 5/32 | .172 | | 0.27 | 2.09 | 7.92 | 5 |
| 482-2 | Direct-Dia. adjustable | vac | | | | PVC | 5/32 | .172 | 1/4 | 0.27 | 2.09 | 7.92 | 5 |
| Round Body, Single Station Valves | | | | | | | | | | | | | |
| 492Sxxx | Direct | 150 | 0 | 10.2 | 0 | 303 SS | 1/8 | .125 | 1/4 | 0.27 | 2.09 | 7.92 | 3 |
| Manifold Valves | | | | | | | | | | | | | |
| 491Mxxx | Direct | 150 | 0 | 10.2 | 0 | BRASS BLOCK / | 1/8 | .125 | 1/8 | 0.27 | 2.09 | 7.92 | 6 |
| 492Mxxx | Direct | 150 | 0 | 10.2 | 0 | SS SEATS | 1/8 | .125 | 1/4 | 0.27 | 2.09 | 7.92 | 6 |
| 492MSSxxx | Direct | 150 | 0 | 10.2 | 0 | 303 SS | 1/8 | .125 | 1/4 | 0.27 | 2.09 | 7.92 | 6 |
| 464M | Diaphragm | 150 | 3 | 10.2 | .204 | 303 SS | 3/8 | .375 | 1/2 | 2.00 | 15.50 | 58.67 | 6 |
| High Pressure Normally Closed | | | | | | | | | | | | | |
| 453P* | Pilot-Piston | 1200 | 10 | 81.6 | 0.68 | BRASS | 7/20 | .350 | 3/8 | 1.80 | 13.95 | 52.80 | 4 |
| 453S*** | Pilot-Piston | 1200 | 10 | 81.6 | 0.68 | BRASS | 7/20 | .350 | 3/8 | 1.80 | 13.95 | 52.80 | 4 |
| 454P** | Pilot-Piston | 1200 | 10 | 81.6 | 0.68 | BRASS | 1/2 | .500 | 1/2 | 3.70 | 28.68 | 108.53 | 4 |
| 458P** | Pilot-Piston | 1200 | 10 | 81.6 | 0.68 | BRASS | 15/16 | .939 | 1 | 11.10 | 86.03 | 325.60 | 4 |
| 458PS* | Pilot-Piston | 1200 | 10 | 81.6 | 0.68 | BRASS | 15/16 | .939 | 1 | 11.10 | 86.03 | 325.60 | 4 |
| High Pressure Normally Open | | | | | | | | | | | | | |
| O453P** | Norm-Open | 1000 | 10 | 68 | 0.68 | BRASS | 7/20 | .350 | 3/8 | 1.80 | 13.95 | 52.80 | 7 |
| O453S*** | Norm-Open | 1000 | 10 | 68 | 0.68 | BRASS | 7/20 | .350 | 3/8 | 1.80 | 13.95 | 52.80 | 7 |

* stainless steel piston (no sleeve) ** stainless steel sleeve with brass piston *** (s) designates stainless steel sleeve and piston

Note: All high pressure valves with a DC Coil must be derated to 900 psi.

Electrical Specifications

| Coil No. | AC | | | | | | DC | | |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------------|------|-----------------|------|-------|-------|-------|
| | Watts | Volts | AMPERES INRUSH | | AMPERES HOLDING | | Watts | Volts | Amps |
| | | | 50Hz | 60Hz | 50Hz | 60Hz | | | |
| Coil No. 1 Used On 401P, 473P, 474P, 476P, O473P, O474P, O476P, 481P, 482-2, 466P | 10 | 24 | 1.8 | 1.5 | 1.0 | .75 | 15 | 12 | 1.25 |
| | | 120 | .38 | .33 | .21 | | | 24 | 0.625 |
| | | 208 | .16 | .14 | .12 | .09 | | | |
| | | 240 | .19 | .16 | .10 | .07 | | | |
| Coil No. 2 Used On 411P, 412P, A413P, A414P, A416P, A418P, 453P, 454P, 458P, 458PS, O453P, O453S | 15 | 24 | 3.7 | 3.0 | 1.6 | 1.2 | 18 | 12 | 1.5 |
| | | 120 | .73 | .60 | .33 | .24 | | 24 | 0.75 |
| | | 208 | .41 | .35 | .19 | .14 | | | |
| | | 240 | .36 | .30 | .16 | .12 | | | |
| Coil No. 5 Used On 442P, 443P, P442, P443, P462, P463, 463PS, 464PS, 463PS- D, 464PS-D, 463PSJ, 464PSJ, P404J | 10 | 24 | na | .67 | na | .48 | 10 | 12 | 0.83 |
| | | 120 | na | .15 | na | .102 | | 24 | 0.42 |
| | | 240 | na | .075 | na | .05 | | | |
| | | | | | | | | | |
| Coil No. 7 Used On 491M, 492M, 491S, 492S, 492SM, 476PS | 10 | 24 | na | .67 | na | .48 | 13 | 24 | .54 |
| | | 120 | na | .15 | na | .102 | | | |

*Valves listed for which Coil # used

Valve Repair Kits

| Model | Kit P/N | O-Ring | Closing Spring | Plunger Spring | Plunger | Valve Seat | Piston Ring | Backup Spring | Piston Assembly | Diaphragm Valve Operator | Enclosing Assembly |
|------------------|---------------------------------------|--------|----------------|----------------|---------|------------|-------------|---------------|-----------------|--------------------------|--------------------|
| 401P | 41-24 | Y | | Y | Y | Y | | | | | |
| 412P | 41-26 | Y | Y | Y | Y | | Y | Y | Y | | |
| A413P | 41-27 | Y | Y | Y | Y | | Y | Y | Y | | |
| A414P | 41-28 | Y | Y | Y | Y | | Y | Y | Y | | |
| A416P | 41-29 | Y | Y | Y | Y | | Y | Y | Y | | |
| A418P | 41-30 | Y | Y | Y | Y | | Y | Y | Y | | |
| 442P & 443P | 61-78 | | Y | | Y | | | | | Y | |
| P442 & P443 | 61-78 | | Y | | Y | | | | | Y | |
| P462 & P463 | 61-78 | | Y | | Y | | | | | Y | |
| 463PS & 464PS | 61-78 | | Y | | Y | | | | | Y | |
| OP442 & OP443 | 41-44-1 | | | | | | | | | Y | Y |
| OPP442 & OPP443 | 41-44-1 | | | | | | | | | Y | Y |
| O463PS & OP464PS | 41-44-1 | | | | | | | | | Y | Y |
| 453P & 453S | 41-31 | Y | Y | Y | Y | | Y | Y | Y | | |
| 454P | 41-32 | Y | Y | Y | Y | | Y | Y | Y | | |
| 458P | 41-33 | Y | Y | Y | Y | | Y | Y | Y | | |
| 458PS | 41-33-2 | Y | Y | Y | Y | | Y | Y | Y | | |
| O453P & O453S | 41-58 | Y | Y | | | | Y | Y | Y | | Y |
| 473P & 474P | 41-47 | Y | | Y | Y | | | | | Y | |
| O473P & O474P | 41-50 | Y | Y | | | | | | | Y | Y |
| O476P | 41-50-1 | Y | Y | | | | | | | Y | Y |
| 476P | 41-49 | Y | | Y | Y | | | | | Y | |
| 466P & 466PV | No Kit Number, Order Individual Parts | | | | | | | | | | |
| 492M | *49-1-8 (1/8"Orifice) | Y | | Y | Y | Y | | | Y | | |
| | *49-1-6 (3/32"Orifice) | Y | | Y | Y | Y | | | Y | | |
| 464M | 61.78 | | Y | | Y | | | | | Y | |

*Note: Add suffix (B) Buna, (E) EP, (V) Viton i.e. 49-1-8V

C Series Injector Selection Table

Total Spray Nozzle Flow - GPM

| Model | Pipe SizeNPT | Nozzle Bushing | Pump Discharge Pressure PSI (Inlet) | | | | | | | | | | | | | | | | | | Max.Injection OZ/MIN *Viscosity - CPS | | | | | | | |
|--------------------------|-----------------|-------------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------------------|-----|-----|-----|----|-----|-----|-----|
| | | | 15 | | 30 | | 45 | | 60 | | 75 | | 90 | | 120 | | 150 | | 230 | | 300 | | 390 | | 1 | 75 | 220 | 500 |
| 200-3C and 200-3CT | 1/8 | 02 | .10 | .12 | .13 | .16 | .15 | .19 | .17 | .21 | .19 | .22 | .21 | .26 | .24 | .30 | .26 | .33 | .31 | .37 | .37 | .44 | .41 | .49 | 3 | 0.5 | 0.3 | 0.2 |
| | | 03 | .12 | .16 | .16 | .21 | .19 | .24 | .21 | .28 | .22 | .27 | .26 | .33 | .30 | .38 | .33 | .42 | .37 | .45 | .44 | .53 | .49 | .59 | | | | |
| | | 04 | .16 | .20 | .21 | .26 | .24 | .30 | .28 | .34 | .27 | .39 | .26 | .33 | .38 | .47 | .42 | .52 | .45 | .65 | .53 | .76 | .59 | .85 | | | | |
| 200C and 200CT | 1/8 | 1 | .20 | .25 | .26 | .32 | .30 | .38 | .34 | .43 | .39 | .46 | .41 | .52 | .47 | .59 | .52 | .66 | .65 | .77 | .76 | .91 | .85 | 1.0 | 5 | 1.5 | 0.5 | 0.3 |
| | | 2 | .25 | .32 | .32 | .41 | .38 | .48 | .43 | .55 | .46 | .56 | .52 | .66 | .59 | .76 | .66 | .84 | .77 | .92 | .91 | 1.1 | 1.0 | 1.2 | | | | |
| | | 3 | .32 | .39 | .41 | .51 | .48 | .60 | .55 | .68 | .56 | .76 | .66 | .82 | .76 | .95 | .84 | 1.0 | .92 | 1.3 | 1.1 | 1.5 | 1.2 | 1.7 | | | | |
| 201C and 201CT | 1/8 | 4 | .39 | .49 | .51 | .64 | .60 | .76 | .68 | .86 | .76 | .96 | .82 | 1.0 | .95 | 1.2 | 1.0 | 1.3 | 1.3 | 1.6 | 1.5 | 1.9 | 1.7 | 2.1 | 7 | 4 | 2 | 1 |
| | | 5 | .49 | .63 | .64 | .82 | .76 | .97 | .86 | 1.1 | .96 | 1.2 | 1.0 | 1.3 | 1.2 | 1.5 | 1.3 | 1.7 | 1.6 | 1.9 | 1.9 | 2.3 | 2.1 | 2.5 | | | | |
| | | 6 | .63 | .79 | .82 | 1.0 | .97 | 1.2 | 1.1 | 1.4 | 1.2 | 1.5 | 1.3 | 1.6 | 1.5 | 1.9 | 1.7 | 2.1 | 1.9 | 2.5 | 2.3 | 2.9 | 2.5 | 3.3 | | | | |
| 202C and 202CT | 1/4 | 7 | .79 | .98 | 1.0 | 1.3 | 1.2 | 1.5 | 1.4 | 1.7 | 1.5 | 1.9 | 1.6 | 2.1 | 1.9 | 2.4 | 2.1 | 2.6 | 2.5 | 3.2 | 2.9 | 3.8 | 3.3 | 4.2 | 11 | 6 | 2.5 | 1.3 |
| | | 8 | .98 | 1.3 | 1.3 | 1.6 | 1.5 | 1.9 | 1.7 | 2.2 | 1.9 | 2.3 | 2.1 | 2.6 | 2.4 | 3.0 | 2.6 | 3.4 | 3.2 | 3.7 | 3.8 | 4.5 | 4.2 | 5.0 | | | | |
| | | 9 | 1.3 | 1.6 | 1.6 | 2.0 | 1.9 | 2.4 | 2.2 | 2.7 | 2.3 | 3.0 | 2.6 | 3.3 | 3.0 | 3.8 | 3.4 | 4.2 | 3.7 | 5.0 | 4.5 | 6.0 | 5.0 | 6.7 | | | | |
| 203C and 203CT | 3/8 | 10 | 1.6 | 2.0 | 2.0 | 2.6 | 2.4 | 3.0 | 2.7 | 3.4 | 3.0 | 3.6 | 3.3 | 4.1 | 3.8 | 4.7 | 4.2 | 5.2 | 5.0 | 6.0 | 6.0 | 7.1 | 6.7 | 7.9 | 21 | 7 | 3 | 1.3 |
| | | 11 | 2.0 | 2.5 | 2.6 | 3.3 | 3.0 | 3.9 | 3.4 | 4.4 | 3.6 | 4.8 | 4.1 | 5.3 | 4.7 | 6.0 | 5.2 | 6.7 | 6.0 | 8.0 | 7.1 | 9.1 | 7.9 | 10 | | | | |
| | | 12 | 2.5 | 3.2 | 3.3 | 4.1 | 3.9 | 4.8 | 4.4 | 5.5 | 4.8 | 6.1 | 5.3 | 6.6 | 6.0 | 7.6 | 6.7 | 8.3 | 8.0 | 10 | 9.1 | 12 | 10 | 13 | | | | |
| 204C and 204CT | 1/2 | 13 | 3.2 | 3.9 | 4.1 | 5.1 | 4.8 | 6.0 | 5.5 | 7.6 | 6.1 | 8.2 | 6.6 | 8.3 | 7.6 | 9.4 | 8.3 | 10 | 10 | 14 | 12 | 15 | 13 | 17 | 30 | 8 | 3.5 | 1.3 |
| | | 14 | 3.9 | 5.1 | 5.1 | 6.6 | 6.0 | 7.7 | 7.6 | 8.8 | 8.2 | 9.6 | 8.3 | 11 | 9.4 | 12 | 10 | 14 | 14 | 16 | 15 | 18 | 17 | 20 | | | | |
| | | 15 | 5.1 | 6.3 | 6.6 | 8.2 | 7.7 | 9.7 | 8.8 | 11 | 9.6 | 13 | 11 | 13 | 12 | 15 | 14 | 17 | 16 | 21 | 18 | 24 | 20 | 27 | | | | |
| 206C and 206CT | 3/4 | 16 | 6.3 | 7.9 | 8.2 | 10 | 9.7 | 12 | 11 | 14 | 13 | 16 | 13 | 17 | 15 | 19 | 17 | 21 | 21 | 26 | 24 | 30 | 27 | 34 | 55 | 33 | 18 | 12 |
| | | 17 | 7.9 | 10 | 10 | 13 | 12 | 15 | 14 | 18 | 16 | 19 | 17 | 21 | 19 | 24 | 21 | 27 | 26 | 31 | 30 | 36 | 34 | 40 | | | | |
| | | 18 | 10 | 13 | 13 | 16 | 15 | 19 | 18 | 22 | 19 | 24 | 21 | 26 | 24 | 30 | 27 | 33 | 31 | 40 | 36 | 47 | 40 | 52 | | | | |
| 208C and 208CT | 1 | 19 | 13 | 16 | 16 | 20 | 19 | 24 | 22 | 27 | 24 | 30 | 26 | 33 | 30 | 38 | 33 | 42 | 40 | 50 | 47 | 59 | 52 | 65 | 60 | 33 | 18 | 12 |
| | | 20 | 16 | 20 | 20 | 26 | 24 | 31 | 27 | 35 | 30 | 37 | 33 | 42 | 38 | 48 | 42 | 54 | 50 | 56 | 59 | 66 | 65 | 74 | | | | |
| | | 21 | 20 | 25 | 26 | 33 | 31 | 39 | 35 | 44 | 37 | 48 | 42 | 53 | 48 | 61 | 54 | 67 | 56 | 80 | 66 | 94 | 74 | 99 | | | | |
| Outlet Pressure | | | 10 | | 20 | | 30 | | 40 | | 50 | | 60 | | 80 | | 100 | | 150 | | 200 | | 250 | | | | | |

| Pipe Model | Size NPT | Nozzle Bushing | Pump Discharge Pressure PSI (Inlet) | | | | | | | | | | | | | | | | | | | | | | | | Max.Injection OZ/MIN *Viscosity - CPS | | | |
|--------------------------|----------|-------------------|-------------------------------------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|------------------------------------------|-----|-----|--|
| | | | 460 | | 540 | | 620 | | *700 | | *770 | | *930 | | *1100 | | *1230 | | *1540 | | *2000 | | *3000 | | 1 | 75 | 220 | 500 | | |
| 200-3C and 200-3CT | 1/8 | 02 | .44 | .53 | .48 | .57 | .51 | .61 | .54 | .65 | .57 | .68 | .62 | .75 | .67 | .81 | .72 | .86 | .80 | .95 | .90 | 1.1 | 1.3 | 1.1 | 1.3 | 3 | 0.5 | 0.3 | 0.2 | |
| | | 03 | .53 | .64 | .57 | .69 | .61 | .74 | .65 | .78 | .68 | .82 | .75 | .89 | .81 | .97 | .86 | 1.0 | .95 | 1.1 | 1.1 | 1.3 | 1.3 | 1.6 | | | | | | |
| | | 04 | .64 | .92 | .69 | 1.0 | .74 | 1.1 | .78 | 1.1 | .82 | 1.2 | .89 | 1.3 | .97 | 1.4 | 1.0 | 1.5 | 1.1 | 1.7 | 1.3 | 1.9 | 1.6 | 2.3 | | | | | | |
| 200C and 200CT | 1/8 | 1 | .92 | 1.1 | 1.0 | 1.2 | 1.1 | 1.2 | 1.1 | 1.3 | 1.2 | 1.4 | 1.3 | 1.5 | 1.4 | 1.7 | 1.5 | 1.8 | 1.7 | 2.0 | 1.9 | 2.3 | 2.3 | 2.8 | 5 | 1.5 | 0.5 | 0.3 | | |
| | | 2 | 1.1 | 1.3 | 1.2 | 1.4 | 1.2 | 1.5 | 1.3 | 1.6 | 1.4 | 1.7 | 1.5 | 1.8 | 1.7 | 2.0 | 1.8 | 2.1 | 2.0 | 2.4 | 2.3 | 2.7 | 2.8 | 3.3 | | | | | | |
| | | 3 | 1.3 | 1.8 | 1.4 | 2.0 | 1.5 | 2.1 | 1.6 | 2.2 | 1.7 | 2.3 | 1.8 | 2.5 | 2.0 | 2.7 | 2.1 | 2.9 | 2.4 | 3.2 | 2.7 | 3.7 | 3.3 | 4.5 | | | | | | |
| 201C and 201CT | 1/8 | 4 | 1.8 | 2.3 | 2.0 | 2.5 | 2.1 | 2.7 | 2.2 | 2.8 | 2.3 | 3.0 | 2.5 | 3.2 | 2.7 | 3.5 | 2.9 | 3.7 | 3.2 | 4.1 | 3.7 | 4.7 | 4.5 | 5.8 | 7 | 4 | 2 | 1 | | |
| | | 5 | 2.3 | 2.7 | 2.5 | 3.0 | 2.7 | 3.2 | 2.8 | 3.4 | 3.0 | 3.5 | 3.2 | 3.8 | 3.5 | 4.2 | 3.7 | 4.4 | 4.1 | 4.9 | 4.7 | 5.6 | 5.8 | 6.9 | | | | | | |
| | | 6 | 2.7 | 3.6 | 3.0 | 3.8 | 3.2 | 4.1 | 3.4 | 4.3 | 3.5 | 4.6 | 3.8 | 5.0 | 4.2 | 5.4 | 4.4 | 5.8 | 4.9 | 6.4 | 5.6 | 7.3 | 6.9 | 8.9 | | | | | | |
| 202C and 202CT | 1/4 | 7 | 3.6 | 4.6 | 3.8 | 4.9 | 4.1 | 5.3 | 4.3 | 5.6 | 4.6 | 5.9 | 5.0 | 6.4 | 5.4 | 6.9 | 5.8 | 7.4 | 6.4 | 8.2 | 7.3 | 9.4 | 8.9 | 11 | 11 | 6 | 2.5 | 1.3 | | |
| | | 8 | 4.6 | 5.4 | 4.9 | 5.8 | 5.3 | 6.2 | 5.6 | 6.6 | 5.9 | 6.9 | 6.4 | 7.6 | 6.9 | 8.2 | 7.4 | 8.7 | 8.2 | 9.7 | 9.4 | 11 | 11 | 13 | | | | | | |
| | | 9 | 5.4 | 7.3 | 5.8 | 7.9 | 6.2 | 8.4 | 6.6 | 8.9 | 6.9 | 9.3 | 7.6 | 10 | 8.2 | 11 | 8.7 | 12 | 9.7 | 13 | 11 | 15 | 13 | 18 | | | | | | |
| 203C and 203CT | 3/8 | 10 | 7.3 | 8.6 | 7.9 | 9.2 | 8.4 | 9.9 | 8.9 | 10 | 9.3 | 11 | 10 | 12 | 11 | 13 | 12 | 14 | 13 | 15 | 15 | 18 | 18 | 21 | 21 | 7 | 3 | 1.3 | | |
| | | 11 | 8.6 | 11 | 9.2 | 12 | 9.9 | 13 | 10 | 13 | 11 | 14 | 12 | 15 | 13 | 17 | 14 | 18 | 15 | 20 | 18 | 23 | 21 | 28 | | | | | | |
| | | 12 | 11 | 15 | 12 | 16 | 13 | 17 | 13 | 18 | 14 | 19 | 15 | 20 | 17 | 22 | 18 | 24 | 20 | 26 | 23 | 30 | 28 | 36 | | | | | | |
| 204C and 204CT | 1/2 | 13 | 15 | 19 | 16 | 20 | 17 | 21 | 18 | 23 | 19 | 24 | 20 | 26 | 22 | 28 | 24 | 30 | 26 | 33 | 30 | 40 | 36 | 49 | 30 | 8 | 3.5 | 1.3 | | |
| | | 14 | 19 | 22 | 20 | 24 | 21 | 26 | 23 | 27 | 24 | 28 | 26 | 31 | 28 | 34 | 30 | 36 | 33 | 40 | 40 | 47 | 49 | 58 | | | | | | |
| | | 15 | 22 | 30 | 24 | 32 | 26 | 34 | 27 | 36 | 28 | 38 | 31 | 41 | 34 | 45 | 36 | 48 | 40 | 53 | 47 | 62 | 58 | 75 | | | | | | |
| 206C and 206CT | 3/4 | 16 | 30 | 37 | 32 | 40 | 34 | 42 | 36 | 45 | 38 | 47 | 41 | 52 | 45 | 56 | 48 | 60 | 53 | 66 | 62 | 76 | 75 | 93 | 55 | 33 | 18 | 12 | | |
| | | 17 | 37 | 43 | 40 | 47 | 42 | 49 | 45 | 53 | 47 | 56 | 52 | 61 | 56 | 66 | 60 | 70 | 66 | 78 | 76 | 91 | 93 | 99 | | | | | | |
| | | 18 | 43 | 57 | 47 | 61 | 49 | 65 | 53 | 69 | 56 | 73 | 61 | 80 | 66 | 86 | 70 | 92 | 78 | 99 | 91 | 99 | | | | | | | | |
| 208C and 208CT | 1 | 19 | 57 | 71 | 61 | 77 | 65 | 82 | 69 | 87 | 73 | 91 | 80 | 99 | 86 | 99 | 92 | 99 | | | | | | | 60 | 33 | 18 | 12 | | |
| | | 20 | 71 | 80 | 77 | 86 | 82 | 92 | 87 | 98 | 91 | 99 | | | | | | | | | | | | | | | | | | |
| | | 21 | 80 | 99 | 86 | 99 | 92 | 99 | 98 | 99 | | | | | | | | | | | | | | | | | | | | |
| Outlet Pressure | | | 300 | | 350 | | 400 | | 450 | | 500 | | 600 | | 700 | | 800 | | 1000 | | 1300 | | 1950 | | | | | | | |

B Series Injector Information





| Fluid Viscosity CPS | Maximum Injection Ounces Per Minute | | | |
|---------------------|-------------------------------------|-------------|-------------|-------------|
| | 3/8 NPT | 3/8 NPT | 1/2 NPT | 3/4 NPT |
| | 202B | 203B | 204B | 206B |
| 1 | 8 | 16 | 36 | 42 |
| 75 | 4 | 8 | 13 | 18 |
| 220 | 2 | 4 | 5 | 8 |
| 500 | 1 | 2 | 2 | 4 |
| 1000 | 0.5 | 1 | 1 | 1 |

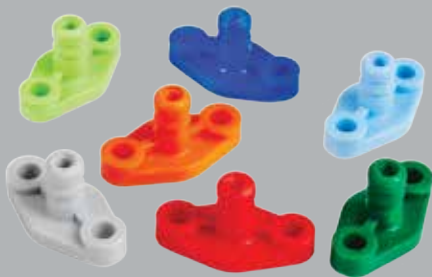
Note: Add suffix "T" for metering tip knob
For highly viscous fluids order part #24-56, 24-56T or 24-56S high induction metering knob kit on (page 15)

| Inlet Pressure PSI | Operating Range GPM | | | |
|--------------------|---------------------|-------------|-------------|-------------|
| | 3/8 NPT | 3/8 NPT | 1/2 NPT | 3/4 NPT |
| | 202B | 203B | 204B | 206B |
| 10 | .25-2.0 | .50-3.5 | 2.0-6.4 | 3.6-11 |
| 20 | .30-2.3 | .55-4.4 | 2.3-7.5 | 4.2-13 |
| 40 | .37-2.9 | .70-5.4 | 2.9-9 | 5.3-17 |
| 60 | .43-3.4 | .80-6.4 | 3.4-11 | 6.2-19 |
| 100 | .54-4.2 | 1.0-8.0 | 4.2-14 | 7.7-24 |
| 200 | .73-5.7 | 1.4-11 | 5.7-19 | 11-33 |
| 400 | 1.0-7.9 | 1.9-15 | 7.9-26 | 15-46 |
| 500 | 1.2-8.9 | 2.1-17 | 8.9-29 | 17-51 |
| *700 | 1.4-11 | 2.5-20 | 11-35 | 20-60 |
| *1000 | 1.6-13 | 3.0-23 | 13-41 | 23-70 |
| *1500 | 2.0-16 | 3.5-28 | 16-50 | 28-87 |
| *2000 | 2.2-18 | 4.7-37 | 18-58 | 33-100 |
| *3000 | 2.7-20 | 5.0-45 | 20-70 | 40-100 |

*Specify "S" Stainless Steel Knob Part
#24-32S for pressure exceeding 700psi

MixRite Repair Kit Information

| Model # | Percentage or ratio | CW - Aflas Chem. Seals, CL - Viton Seals, PVDF - Kynar Body, Viton Seals |  |  |  | Chemical Suction Cylinder |  | Includes Engine Assembly with lip seals, does not include connecting rod | |
|-------------------|-------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------|
| 569 | .1-.9% or 1000:1 -100:1 | CW | 57.K01.001 | 57.1VE | 36000000145 | | 36000000191 | 57.2B | |
| | | CL | | | | | | 57.2B.CL | |
| | | PVDF | 57.K01.001P | 57.1P | | | | 57.2B.P | |
| 1401A 1401M | .1-.9% or 1000:1 -100:1 | 14 Series Aflas and Hastalloy | 36300000015 | 36300000016 | | 36300000017 | | 36300000006 36300000019 LFR Engine | |
| 570 | .3-2% or 500:1 - 50:1 | CW | 57.K02.005 | 57.3VE | | 57.10.7.2 | | | 57.2B |
| | | CL | | | | | | | 57.2B.CL |
| | | PVDF | 57.K02.005P | 57.3P | | | | | 57.2B.P |
| 571 | .3-2% or 500:1 - 50:1 | CW | 57.K02.005 | 57.3VE | | | | | 57.2B |
| | | CL | | | | | | | 57.2B.CL |
| | | PVDF | 57.K02.005P | 57.3P | | | | | 57.2B.P |
| 1402A 1402M | .3-2% or 500:1 - 50:1 | 14 Series Aflas and Hastalloy | 36300000011 | 36300000014 | | 36300000018 | | 36300000006 36300000019 LFR Engine | |
| 572 | .4-4% or 250:1 - 25:1 | CW | 57.K04.012 | 57.8VE | | 57.10.7.4 | | | 57.2B |
| | | CL | | | | | | | 57.2B.CL |
| | | PVDF | 57.K04.012P | 57.8P | | | | | 57.2B.P |
| 573 | .4-4% or 250:1 - 25:1 | CW | 57.K04.012 | 57.8VE | 57.2B | | | | |
| | | CL | | | 57.2B.CL | | | | |
| | | PVDF | 57.K04.012P | 57.8P | 57.2B.P | | | | |
| 14.CW.05 1405M | .5-5% or 200:1 - 20:1 | 14 Series Aflas and Hastalloy | 36300000001 | 36300000003 | 36000000128 | 36300000005 | 36300000006 36300000019 LFR Engine | | |
| 1410A 1410M | 1-10% or 100:1 - 10:1 | 14 Series Aflas and Hastalloy | 36300000007 | 36300000008 | 36000000152 | 36000000178 | | | |



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