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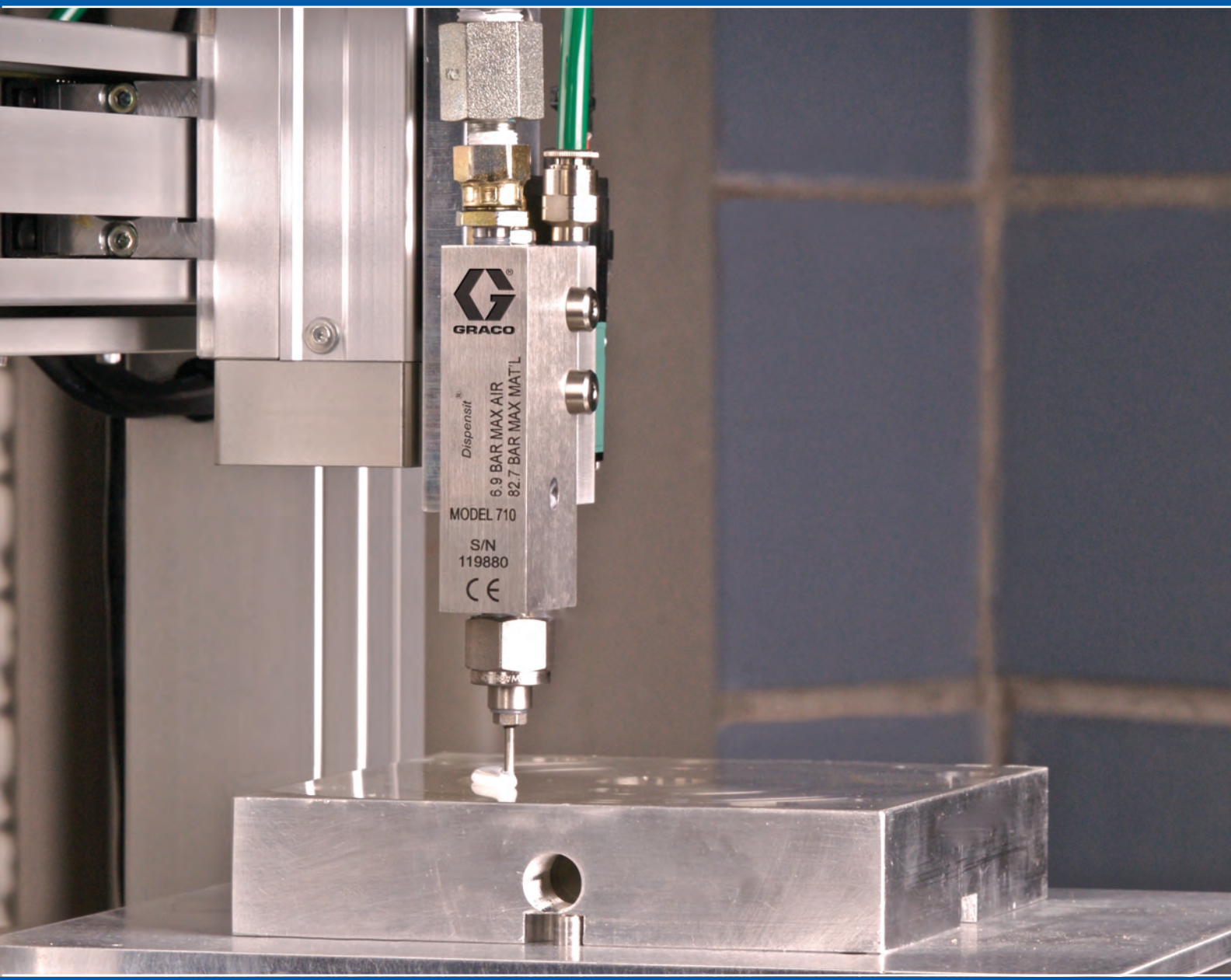
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# Dispensit®

## Single-Component Metering and Dispensing Valves




PROVEN QUALITY. LEADING TECHNOLOGY.

# Dispensit Valves. Precise. Accurate. Reliable.

## The ideal low-volume dispensing solution

Graco offers a broad line of precision Dispensit metering and dispensing valves for applications requiring low-volume, single-component dispensing. These valves come in many sizes and dispense a wide range of materials.

- Offers exceptional performance with a range of material viscosities – from water-thin to paste consistency
- Dispenses metered shot sizes from 0.001 to 52 $cm^3$
- Features on/off valves for continuous bead applications
- Lightweight, compact design is easy to integrate with automated equipment
- Simple valve design means easy maintenance
- Precise, repeatable shot-to-shot or bead dispensing



Supply Systems



Pressure Regulators



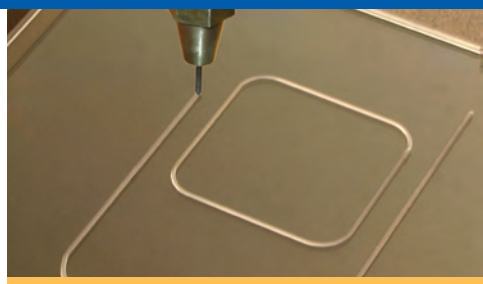
Dispense Valves



Automation



Controls



### DISPENSIT VALVES ARE USED IN MARKETS INCLUDING:

- Telecommunications
- Lubrication
- Automotive
- Electronics
- Aerospace
- Welding
- Medical

# On/Off Valves

- Dispenses a range of material viscosities and flow rates
- Offers continuous bead dispensing or rapid on/off cycling without reload time
- High-feed pressure-rated needle valve design provides higher flow rates even for narrow bead profiles [1]
- Snuff-back versions for precise, consistent dispensing [2]
- Simple on/off control via PLC for integrated solenoid versions or versions for external pneumatic control

***Needle Backstroke Adjustment***

Fine tune output flow requirements

***Stainless and Wetted Components***

Provide corrosion resistance for most materials

***Integral Solenoid Valve (optional)***

Rapid on/off cycling and simplified installation

***Heated Body (optional)***

For applications requiring heat

***High-Feed Pressure Rating***

Handles high material flow rates or viscous materials

***Hardened Stainless Steel Needle Seat***

Wear and corrosion resistance



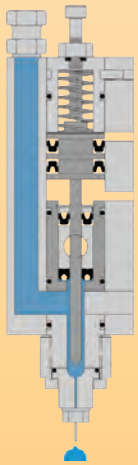

**On/Off Valve Models:**
710 and 715 (710 shown)

1. 710 only 2. 715 only

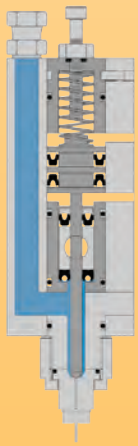
## HOW IT WORKS

*Material flow starts* 1 *when the needle retracts from its seat and stops* 2 *when the needle re-seats.*

1



2



Note: 710 shown

# Pinch Tube Valves

- For low to medium viscosity materials that are abrasive, corrosive or cure quickly
- Ideal for applications requiring precise, high-speed, dot-to-dot dispensing
- Wetted parts of pinch tubes and syringes are replaceable – providing fast clean-up to minimize need for solvent purging or disposal
- Various pinch tube material configurations are available for material compatibility and varying dispense volumes
- Remote or syringe feed configurations provide positive feed pressure using regulated air supply

***Syringe or Remote Material Supply***

Configurations minimize material waste and simplify set-up and operation

***Compact Size***

Easy integration into automation equipment

***Micrometer Adjustment***

Accurate and adjustable shot size

***Disposable Wetted Components***

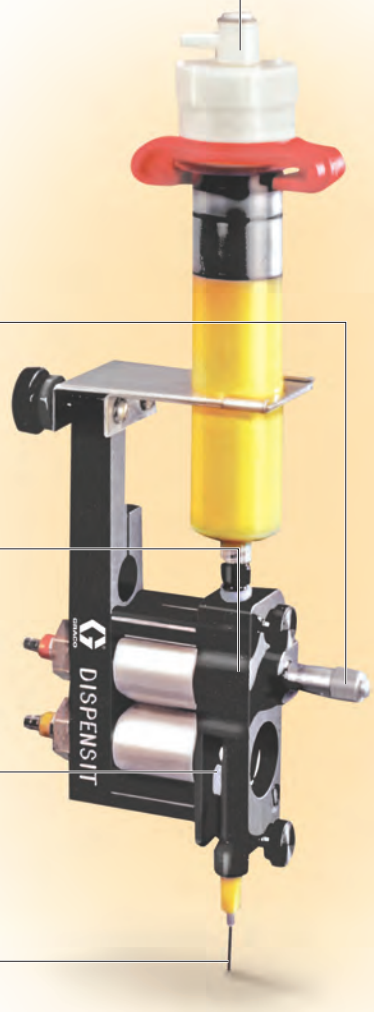
Easy maintenance with no solvents required

***Positive Displacement Pinch Tube***

Technology provides precise dot-to-dot accuracy as well as varied material compatibility

***Dispenses***

Water-thin to paste consistency materials




**Pinch Tube Valve Models:**
702-20, 792-20, 802-20, 802-30, 902-20 (802-20 shown)

## HOW IT WORKS

**Fill Mode** 1

The resilient dispense tube is pinched by the bottom piston, closing the material path to the dispense needle.

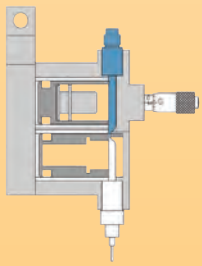
**Dispense Ready** 2

The top piston moves forward to stop the material supply from the reservoir and the bottom piston releases the dispense tube.

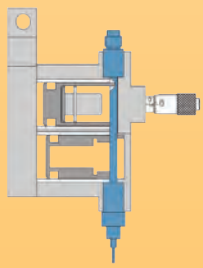
**Dispense Mode** 3

The top dispense piston moves forward until stopped by the micrometer stroke adjustment, squeezing a precise amount of material out of the dispense tube.

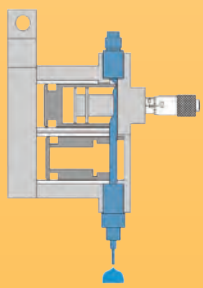
1



2



3



Note: 802-20 shown

# Positive Displacement Metering Rod Valves

- For low to high viscosity materials with various wetted component configurations for abrasive filled, or corrosive materials
- Pneumatically-controlled valves with micrometer adjustable dispense volumes for accurate, repeatable shot dispensing [3]
- Servo-driven valves for programmable, precise shot or bead dispensing [4]
- High-feed pressure ratings for minimal reload times and fast cycle rates [5]
- Pneumatic and electronic controls that can be integrated for automated applications

**Positive Displacement Metering Rod Valve Models:**
1052, 1053, 1092, 1093, 1095, 1206, 1230 (1052 shown)

***Micrometer stroke adjustment or servo motor drive option***
Provides precise and adjustable dispense volume output

***Positive displacement metering rod technology***
Provides repeatable volume dispense for batch, bead, or dot-to-dot applications

***Heated body (optional)***
For applications requiring heat

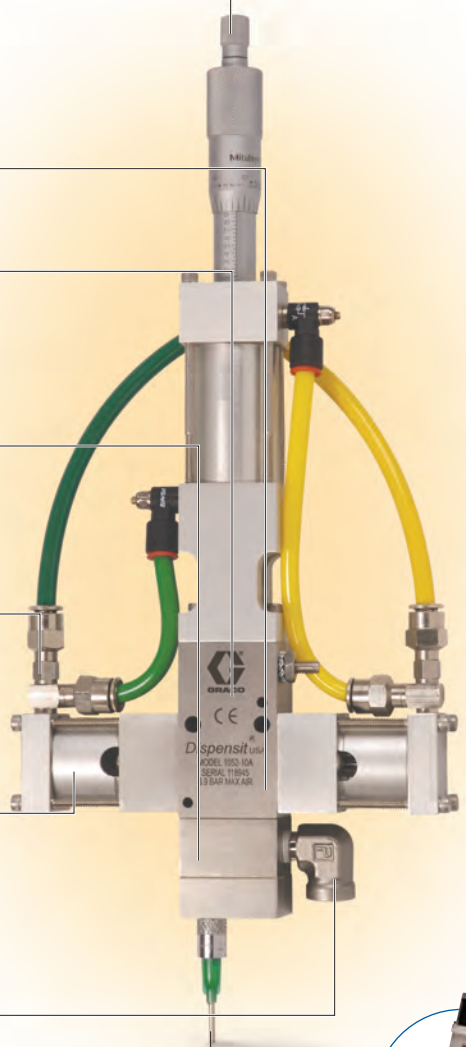
***Wetted components***
Broad range of material compatibility with corrosive or abrasive materials

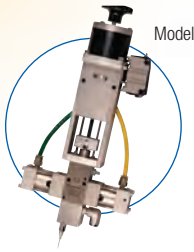
***Tool mount configuration***
Easily mounts to automation platforms, cycle detection option for process monitoring

***Isolated feed/dispensing shuttle valve technology***
Ensures repeatable loading and dispense cycles without material feed-through issues

***High pressure material feed rating***
Provides fast cycle times and dispenses higher viscosity materials

***Custom needle block options***
Application flexibility and minimum cycle time





Model 1053

3. 1052, 1092, 1206 and 1230 only; 4. 1053 and 1093 only; 5. 1206 and 1230 have lower feed pressure ratings

## HOW IT WORKS

**Fill Mode** 1

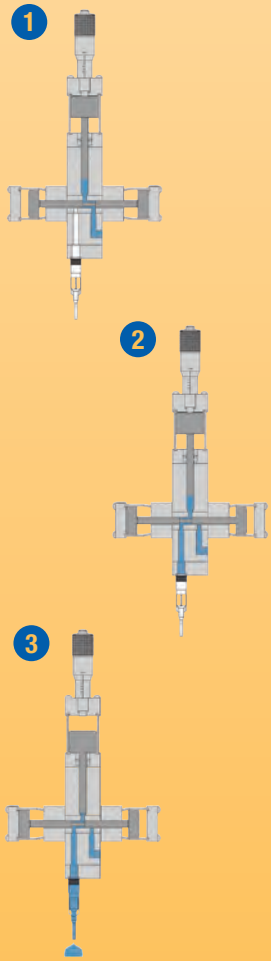
The shuttle spool is positioned to open the inlet port while isolating the outlet port. Material enters the metering chamber as the metering rod retracts.

**Dispense Ready** 2

The spool is positioned to connect the metering chamber to the outlet port providing a material flow path to the dispense needle(s). The shuttle valve also obstructs the material flow path from the inlet port.

**Dispense Mode** 3

The metering rod is extended into the metering chamber, to displace the material. Total volume dispensed is a function of rod size and shot size setting from micrometer stroke adjustment.




Note: 1052 shown

# Select a Valve and Material Feed System

Compatible material feed systems are available for all valve configurations. The following charts will assist you in the valve and feed system selection process, and help you determine the best dispense valve for your application. Custom solutions are also available.

## CHOOSE THE RIGHT VALVE FOR YOUR MATERIAL

| Valve Type | Valve Model | Acrylics | Anaerobics | Brazing Paste | Conductive Epoxies | Cyano- Acrylates | Epoxies | Flux | Lubricants | Potting Compounds | Sealants | Silicones | Solder Cream | Solder Mask | Solvents (Mild) | Medical Reagents | Circuitry Inks | RTVs | UV Curable | Urethanes | Hot Melt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| On/Off Valves | 710 | | | | • | | • | | • | • | • | • | | | • | | | • | | | |
| | 715 | | | | • | | • | | • | • | • | • | | | • | | | • | | | |
| Pinch Tube Valves | 702-20* | | • | • | • | | • | | • | • | | | • | • | | | | | | | |
| | 792-20* | | | • | • | • | • | | • | • | • | • | | | | | | | | | |
| | 802-20 | | • | • | • | • | • | | • | | • | • | • | • | | • | | • | • | | |
| | 802-30 | | | • | • | | • | | • | | | | • | • | | | | | • | | |
| | 902-20 | | • | • | • | | • | • | • | | | | • | • | | | | | | | |
| Positive Displacement Metering Rod Valves | 1052 | • | | | • | | • | | • | • | • | • | | | • | • | | • | • | • | |
| | 1053 | • | | | • | | • | | • | • | • | • | | | • | • | | • | • | • | ★ |
| | 1092 | • | | | • | | • | | • | • | • | • | | | • | • | | • | • | • | |
| | 1093 | • | | | • | | • | | • | • | • | • | | | • | • | | • | • | • | |
| | 1095 | • | | | • | | • | | • | • | • | • | | | | | | • | | • | |
| | 1206 | | | | • | | • | | • | • | • | • | | | • | • | | | • | | |
| | 1230 | | • | | • | | • | • | | • | | | • | | • | • | | | • | | |

★ Micro-Melt version of 1053 Valve is available. Contact Graco Application Engineering for details.

## CHOOSE THE RIGHT FEED SYSTEM FOR YOUR VALVE

| Valve Type | Valve Model | Cartridge Feed (CF 200) | Pressure Tank Feed | Dynamite | Bulk Supply System | Syringe Feed | Maximum Feed Pressure |
|---|---|---|---|---|---|---|---|
| On/Off Valves | 710/710S/710SH | • | • | • | • | | 1200 (82.7 bar) |
| | 715 | • | • | • | • | | 2000 (137.9 bar) |
| Pinch Tube Valves | 702-20* | • | • | • | | • | 60 (4.1 bar) |
| | 792-20* | • | • | • | | • | 60 (4.1 bar) |
| | 802-20 | • | • | • | | • | 60 (4.1 bar) |
| | 802-30 | • | • | • | | • | 60 (4.1 bar) |
| | 902-20 | • | • | • | | • | 60 (4.1 bar) |
| Positive Displacement Metering Rod Valves | 1052 | • | • | • | • | | 1,200 (82.7 bar), 400 (27.6 bar) plastic spool versions |
| | 1053 | • | • | • | • | | 1,200 (82.7 bar), 400 (27.6 bar) plastic spool versions |
| | 1092 | • | • | • | • | | 1,200 (82.7 bar), 400 (27.6 bar) plastic spool versions |
| | 1093 | • | • | • | • | | 1,200 (82.7 bar), 400 (27.6 bar) plastic spool versions |
| | 1095 | • | • | • | • | | 1,200 (82.7 bar), 400 (27.6 bar) plastic spool versions |
| | 1206 | • | • | • | | • | 100 (6.9 bar) |
| | 1230 | • | • | • | | | 60 (4.1 bar) |

*Note: 702-20 and 792-20 are on/off pinch tube valves

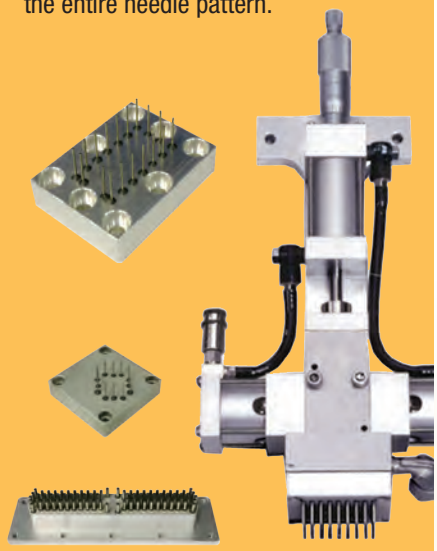
# Accessories, Controllers and Automation



## ACCESSORIES

### CUSTOM NEEDLE BLOCKS

The Dispensit custom needle block configurations are balanced to provide a consistent volume of material over the entire needle pattern.



### OTHER ACCESSORIES:

- Disposable and reusable needles
- Luer lock needles
- Syringe and receiver caps
- Material hoses
- Dispense tubes
- Seal kits
- Mounting bases

## Valve Controllers

Dispensit's intuitive valve controllers, complete with a Dispensit valve, are the ideal solution to optimizing your dispensing process.

### 4104A DISPENSE VALVE CONTROLLER



- Controls dispense time, cycle speed, cycle sequencing, system pressure and reservoir pressure
- Works with complete line of pneumatically-operated dispensing valves
- Electronic dispense cycle timer for optimization and repeatability
- Panel-mounted gauges and cycle timer for simple operation
- Foot switch, automation controller, or mounted control panel initiates dispense sequence
- Automatic and purge modes for repeatable shot dispensing
- Independent regulated air supply controls for valve and material supply
- Color-coded air line connections for easy installation

### SERVO/STEPPER VALVE CONTROLLER



- Provides purge timer, level control, shot size, and flow rate
- Foot switch or automation signal input initiates the dispense cycle
- Electronically controlled touch screen for simplified operations and monitoring
- Up to seven programmable shot sizes and flow rate settings for multiple applications
- Material level sensor notifies operator when material is low
- Programmable alarms and maintenance monitor decrease downtime

## Automation and Feed Systems

Customized automation solutions with integral dispensing systems are available using Graco's experienced application engineering capabilities.

### AUTOMATION SYSTEMS

**C-402/C-404**
Bench-top automated system



**C-450**
Dispensing system fully integrated with a motion platform



**C-500**
Contour dispensing motion platform



### FEED SYSTEMS

**Pressure Reservoir**
0.75 gallon aluminum, 1 and 5 gallon capacity stainless steel versions for feed pressures up to 100 psi (6.9 bar)



**Cartridge Retainers**
For materials packaged in 2.5, 6, 12, 20, 32 ounce, and 0.10 gallon cartridges



**CF 200 or CF 200 with Dual Crossover**
Recommended for abrasive or high viscosity materials in pre-packaged 20-ounce cartridges for feed pressures up to 200 psi (13.8 bar)



**Dynamite 190**
Recommended for materials in 1 quart (1 l) or 1 gallon (3.8 l) containers with viscosities up to 600,000 centipoise and desired feed pressures up to 850 psi (60 bar)



**TO ORDER CALL 330-966-3000**

# Technical Specifications

| | Valve Model | Tube Material | Tube Or Rod Diameter in | Shot Range $cm^3$ | Dot Diameter in (Approximate) | Needle Gauge | Power Factor | Maximum Feed Pressure psi (bar, MPa) | Material Inlet | Material Outlet | Weight (Valve Only) lb (kg) | Dot Dispense | Continuous Bead Dispense | Metered Dispense |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Time Pressure Valves** | | | | | | | | | | | | | | |
|  | **710** | | | Continuous | | 22-12 | | 1200 (83, 8.3) | 1/8 NPTF | 10-32 F | 1 (.45) | • | • | |
| | **710S** | | | Continuous | | 22-12 | | 1200 (83, 8.3) | 1/8 NPTF | 10-32 F | 1.25 (0.6) | • | • | |
| | **710SH** | | | Continuous | | 22-12 | | 1200 (83, 8.3) | 1/8 NPTF | 10-32 F | 1.5 (.68) | • | • | |
|  | **715/SNUFFER Standard** | | | Continuous | | AD | | 2000 (138, 13.8) | 1/4 NPTF | 1/4 NPTF | 1.5 (.68) | • | • | |
| | **715/SNUFFER High Flow** | | | Continuous | | AD | | 2000 (138, 13.8) | 3/8 NPTF | 1/4 NPTF | 1.5 (.68) | • | • | |
| **Pinch Tube Valves** | | | | | | | | | | | | | | |
| | **702-20*** | HU | .037 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
| | **702-20*** | HU | .043 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
| | **702-20*** | HU | .050 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
|  | **702-20*** | HU | .060 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
| | **702-20*** | HU | .066 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
| | **702-20*** | HU | .080 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
| | **702-20*** | HU | .100 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
| | **702-20*** | PP | .068 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
| | **702-20*** | GP | .100 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
| | **702-20*** | P | .100 | Continuous | | 14-23 | | 60 (4, 0.4) | LL | LL | 0.5 (.23) | • | • | |
| | **792-20*** | HP | .170 | Continuous | | 8 | | 60 (4, 0.4) | 1/8 or 1/4 NPTM | NB | 1.5 (.68) | • | • | |
|  | **792-20*** | HP | .250 | Continuous | | .25 in OD | | 60 (4, 0.4) | | NB | 1.5 (.68) | • | • | |
| | **792-20*** | PE | .188 | Continuous | | 8 | | 60 (4, 0.4) | | NB | 1.5 (.68) | • | • | |
| | **792-20*** | PE | .250 | Continuous | | .25 in OD | | 60 (4, 0.4) | | NB | 1.5 (.68) | • | • | |

* On/Off Pinch Tube Valves

| | Valve Model | Tube Material | Tube Or Rod Diameter in | Shot Range $cm^3$ | Dot Diameter in (Approximate) | Needle Gauge | Power Factor | Maximum Feed Pressure psi (bar, MPa) | Material Inlet | Material Outlet | Weight (Valve Only) (lb, kg) | Dot Dispense | Continuous Bead Dispense | Metered Dispense |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pinch Tube Valves** (Continued) | | | | | | | | | | | | | | |
|  | **802-20** | HU | .037 | .0013-.0053 | .090 | 23,22,20 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
| | **802-20** | HU | .043 | .0017-.0071 | .100 | 19 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
| | **802-20** | HU | .050 | .0029-.0117 | .119 | 18 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
| | **802-20** | HU | .060 | .0034-.0139 | .129 | 16 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
| | **802-20** | HU | .066 | .0041-.0169 | .135 | 16 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
| | **802-20** | HU | .080 | .0062-.0249 | .153 | 16,14 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
| | **802-20** | HU | .100 | .0094-.0388 | .177 | 14,12 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
| | **802-20** | PP | .068 | .0043-.0173 | .136 | 16 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
| | **802-20** | GP | .100 | .0094-.0388 | .177 | 14,12 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
| | **802-20** | U | .062 | .0035-.0141 | .127 | 16 | | 60 (4, 0.4) | LL | LL | 0.62 (.28) | • | | • |
|  | **802-30** | HU | .015 | .0002 -.0005 | | 27 | | 60 (4, 0.4) | LL | Flange Hub | 0.5 (.23) | • | | • |
| | **802-30** | HU | .022 | .0003 -.0012 | | 24 | | 60 (4, 0.4) | LL | Flange Hub | 0.5 (.23) | • | | • |
| | **802-30** | HU | .028 | .0005 -.0020 | | 22 | | 60 (4, 0.4) | LL | Flange Hub | 0.5 (.23) | • | | • |
| | **802-30** | HU | .037 | .0009 -.0035 | | 20 | | 60 (4, 0.4) | LL | Flange Hub | 0.5 (.23) | • | | • |
| | **802-30** | HU | .043 | .0011 -.0048 | | 19 | | 60 (4, 0.4) | LL | Flange Hub | 0.5 (.23) | • | | • |
| | **802-30** | HU | .050 | .0019 -.0078 | | 18 | | 60 (4, 0.4) | LL | Flange Hub | 0.5 (.23) | • | | • |
| | **802-30** | HU | .060 | .0023 -.0093 | | 17 | | 60 (4, 0.4) | LL | Flange Hub | 0.5 (.23) | • | | • |
| | **802-30** | HU | .066 | .0027 -.0113 | | 16 | | 60 (4, 0.4) | LL | Flange Hub | 0.5 (.23) | • | | • |
|  | **902-20** | HU | .100 | .0188 -.0776 | .177 | 14-12 | | 60 (4, 0.4) | LL | LL | 1.5 (.68) | • | | • |
| | **902-20** | HU | .125 | .0294 -.1213 | .205 | 14-10 | | 60 (4, 0.4) | LL | LL | 1.5 (.68) | • | | • |
| | **902-20** | HP | .170 | .0545 -.2244 | .252 | 8 | | 60 (4, 0.4) | 1/8 or 1/4 NPTM | NB | 1.5 (.68) | • | | • |
| | **902-20** | HP | .250 | .1117 -.4854 | .326 | .25 in OD | | 60 (4, 0.4) | | NB | 1.5 (.68) | • | | • |
| | **902-20** | U | .250 | .1117 -.4854 | .326 | .25 in OD | | 60 (4, 0.4) | | NB | 1.5 (.68) | • | | • |

**SPECIFICATION LEGEND**

| | | | | | |
|---|---|---|---|---|---|
| **A** | = | Application Dependent | **NB** | = | Needle Block |
| **GP** | = | Green Polyethelene | **PE** | = | Polyethelene |
| **HP** | = | Hytrel PVC | **PP** | = | Pink Polyethelene |
| **HU** | = | Hytrel Urethane | **U** | = | Urethane |
| **LL** | = | Luer Lock | **P** | = | Braided Polyethelene |
| **OD** | = | Outside Diameter | | | |

# Technical Specifications

| | Valve Model | Tube Material | Tube Or Rod Diameter in | Shot Range $cm^3$ | Dot Diameter in (Approximate) | Needle Gauge | Power Factor | Maximum Feed Pressure psi (bar, MPa) | Material Inlet | Material Outlet | Weight (Valve Only) lb (kg) | Dot Dispense | Continuous Bead Dispense | Metered Dispense |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Positive Displacement Metering Rod Valves** | | | | | | | | | | | | | | |
|  | **1052-10A-2** | | .062 | .002-.050 | .078-.228 | 25-22 | 260:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 2.5 (1.1) | • | | • |
| | **1052-10A-2** | | .125 | .006-.200 | .112-.362 | 24-18 | 65:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 2.5 (1.1) | • | | • |
| | **1052-10A-2** | | .188 | .013-.452 | .145-.476 | 20-18 | 28:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 2.5 (1.1) | • | | • |
| | **1052-10A-2** | | .250 | .024-.804 | .178-.576 | 18-14 | 16:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 2.5 (1.1) | • | | • |
| | **1052-10A-2** | | .375 | .054-1.800 | .234-.754 | 14-12 | 7:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 2.5 (1.1) | • | | • |
| | **1053-10B-2** | | .062 | .002-.050 | | 25-22 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 3.0 (1.6)** | • | • | • |
| | **1053-10B-2** | | .125 | .006-.200 | | 24-18 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 3.0 (1.6)** | • | • | • |
| | **1053-10B-2** | | .188 | .013-.452 | | 20-18 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 3.0 (1.6)** | • | • | • |
| | **1053-10B-2** | | .250 | .024-.804 | | 18-14 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 3.0 (1.6)** | • | • | • |
| | **1053-10B-2** | | .375 | .054-1.800 | | 14-12 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 3.0 (1.6)** | • | • | • |
| | **1053-10B-4** | | .375 | .054-3.600 | | 14-12 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/8 NPTF | LL&NB | 4.8 (2.2)** | • | • | • |
|  | **1053-10C-4** | | .062 | .002-.100 | | 25-22 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | #10-32 F | 4.8 (2.2)** | • | • | • |
| | **1053-10C-4** | | .125 | .006-.400 | | 24-18 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | #10-32 F | 4.8 (2.2)** | • | • | • |
| | **1053-10C-4** | | .188 | .013-.904 | | 20-18 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | #10-32 F | 4.8 (2.2)** | • | • | • |
| | **1053-10C-4** | | .250 | .024-1.608 | | 18-14 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | #10-32 F | 4.8 (2.2)** | • | • | • |
| | **1053-10C-4** | | .375 | .054-3.600 | | 14-12 | | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | #10-32 F | 4.8 (2.2)** | • | • | • |
| | **1092-10A-2** | | .250 | .024-.804 | | | 36:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 7.5 (3.4) | • | | • |
| | **1092-10A-2** | | .375 | .054-1.800 | | | 16:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 7.5 (3.4) | • | | • |
| | **1092-10A-2** | | .500 | .090-3.200 | | | 9:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 7.5 (3.4) | • | | • |
| | **1092-10A-4** | | .375 | .054-3.600 | | | 16:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 8.5 (3.9) | • | | • |
| | **1092-10A-4** | | .500 | .090-6.400 | | | 9:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 8.5 (3.9) | • | | • |
| | **1092-10A-4** | | .625 | .151-10.055 | | | 5.76:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 8.5 (3.9) | • | | • |
| | **1092-10A-4** | | .750 | .217-14.479 | | | 4:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 8.5 (3.9) | • | | • |
| | **1092-10A-6** | | .500 | .090-9.6 | | | 9:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 9.5 (4.3) | • | | • |

*10xx Series valves' maximum pressure material inlet pressure is 400 psi; ** Excludes motor; Note: 1053-10C is suitable for highly compressible materials; single needle only

| | Valve Model | Tube Material | Tube Or Rod Diameter in | Shot Range $cm^3$ | Dot Diameter in (Approximate) | Needle Gauge | Power Factor | Maximum Feed Pressure psi (bar, MPa) | Material Inlet | Material Outlet | Weight (Valve Only) lb (kg) | Dot Dispense | Continuous Bead Dispense | Metered Dispense |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Positive Displacement Metering Rod Valves** (Continued) | | | | | | | | | | | | | | |
|  | **1093-10A-4** | | .500 | .090-6.400 | | | | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 9.5 (4.3)** | • | • | • |
| | **1093-10A-4** | | .625 | .151-10.055 | | | | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 9.5 (4.3)** | • | • | • |
| | **1093-10A-4** | | .750 | .217-14.479 | | | | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | LL&NB | 9.5 (4.3)** | • | • | • |
| | **1095-10A-8** | | .188 | .4-1.8 | | | 298:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | 1/4 NPTF | 52 (23.6) | • | • | • |
| | **1095-10A-8** | | .250 | .6-3.2 | | | 169:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | 1/4 NPTF | 52 (23.6) | • | • | • |
| | **1095-10A-8** | | .375 | 1.4-7.2 | | | 75:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | 1/4 NPTF | 52 (23.6) | • | • | • |
| | **1095-10A-8** | | .500 | 2.6-12.8 | | | 42:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | 1/4 NPTF | 52 (23.6) | • | • | • |
| | **1095-10A-8** | | .625 | 4.0-20.0 | | | 64:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | 1/4 NPTF | 52 (23.6) | • | • | • |
| | **1095-10A-8** | | .875 | 9.0-45.0 | | | 32:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | 1/4 NPTF | 52 (23.6) | • | • | • |
| | **1095-10A-8** | | 1 | 10.4-52.0 | | | 25:1 | 400 (28, 2.8) 1200* (83, 8.3) | 1/4 NPTF | 1/4 NPTF | 52 (23.6) | • | • | • |
|  | **1206** | | .062 | .001-.031 | | 23-14 | 146:1 | 100 (7, 0.7) | 1/8 NPTF | LL&NB | 1.0 (0.5) | • | | • |
| | **1206** | | .125 | .010-.125 | | 23-14 | 36:1 | 100 (7, 0.7) | 1/8 NPTF | LL&NB | 1.0 (0.5) | • | | • |
| | **1206** | | .188 | .020-.254 | | 23-14 | 15.9:1 | 100 (7, 0.7) | 1/8 NPTF | LL&NB | 1.0 (0.5) | • | | • |
|  | **1230** | | .125 | .010-.126 | | 23-14 | 34:1 | 60 (4, 0.4) | 1/8 NPTF | LL | 1.0 (0.5) | • | | • |
| | **1230** | | .188 | .022-.283 | | 23-14 | 15:1 | 60 (4, 0.4) | 1/8 NPTF | LL | 1.0 (0.5) | • | | • |
| | **1230** | | .250 | .040-.503 | | 23-14 | 8.4:1 | 60 (4, 0.4) | 1/8 NPTF | LL | 1.0 (0.5) | • | | • |

*10xx Series valves' maximum material inlet pressure is 400 psi for plastic spools and 1200 psi for steel spools; ** Excludes motor

| SPECIFICATION LEGEND | | | | | |
|---|---|---|---|---|---|
| A | = | Application Dependent | NB | = | Needle Block |
| GP | = | Green Polyethelene | PE | = | Polyethelene |
| HP | = | Hytrel PVC | PP | = | Pink Polyethelene |
| HU | = | Hytrel Urethane | U | = | Urethane |
| LL | = | Luer Lock | P | = | Braided Polyethelene |
| OD | = | Outside Diameter | | | |

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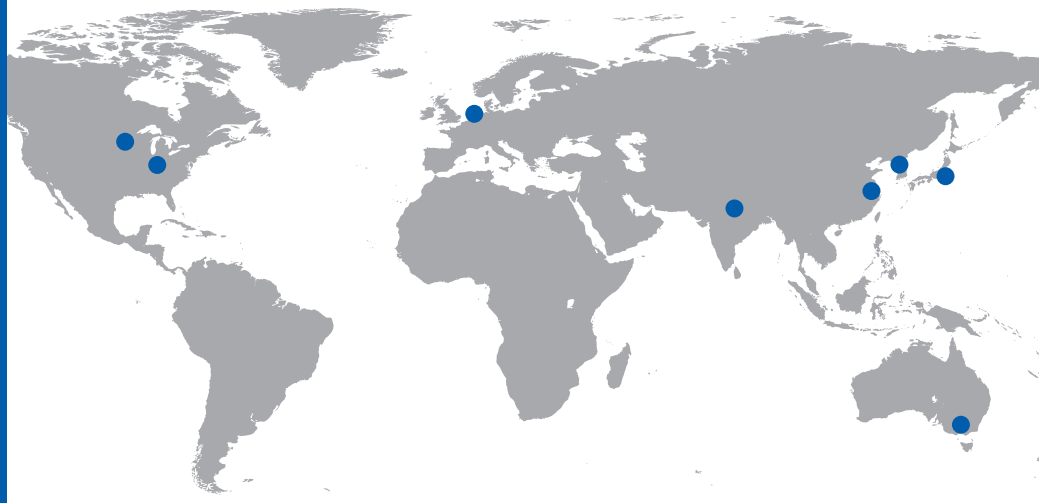
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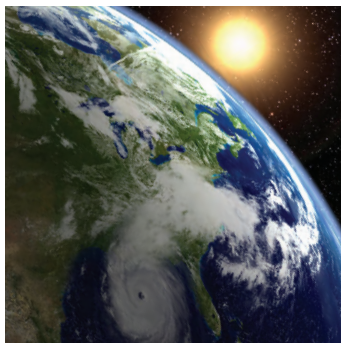
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