Jetstream®
PERFORMANCE ENGINEERED

# PRESSURE GAUGES

**SEVERE SERVICE STYLE**
**10,000 psi**




**No. 25771**

*For **best performance** and **longest life,** gauge should be graduated to approximately twice the normal system operating pressure. This 0 to 20,000 psi gauge is therefore ideal for a normal operating pressure of 10,000 psi.*

## FEATURES:

This **economically priced, 0 - 20,000 psi** gauge is designed for **accuracy, ease of reading,** and **long life** in severe service waterblast applications.

Gauge features stainless steel construction throughout with clear, impact resistant polymer lens. Large **4 1/2" diameter** dial is graduated with easy to ready numbers from 0 - 20,000 psi. Dial is **color coded** for safety.

Integral **throttle screw** dampens damaging erratic pressure fluctuations yet allows fast, accurate response to normal pressure changes. Slotted linkage and glycerine fill further protect mechanism from excessive vibration.

Gauge has 1/2" male pipe thread (NPT) connection. Weight: 4 lbs. **Part No. 25771.**

**All gauges are listed on following page.**

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# PRESSURE GAUGES

**SEVERE SERVICE STYLE**
**5,000 - 20,000 psi**

## I. FEATURES:




These economically priced special purpose gauges are designed for **accuracy, ease of reading** and **long service life** in waterblast applications.

Gauges feature stainless steel construction throughout with clear laminated safety polymer glass lenses. 4" dial faces are graduated with large, easy to ready numbers. (0 - 20,000 psi gauge has 4-1/2" dial face).

Gauges feature internal dampening mechanisms designed to smooth damaging erratic pressure fluctuations yet allow fast, accurate response to normal pressure changes. Glycerine fill further protects mechanism from excessive vibration and dirty atmospheres.

**Note:** For dependable performance and long gauge life, select gauge graduated to **twice** the normal system operating pressure. A 0 - 20,000 psi gauge is therefore ideal for a normal operating pressure of 10,000 psi.

## I. FEATURES:

| PART NUMBER | PRESSURE RANGE | DIAL SIZE | GAUGE CONNECTION | OPERATING PRESSURE |
|---|---|---|---|---|
| **51120** | 0 - 5,000 psi | 4" | 1/2" NPT male | 2,500 psi |
| **50562** | 0 - 10,000 psi | 4" | 1/2" NPT male | 5,000 psi |
| **50558** | 0 - 15,000 psi | 4" | 1/2" NPT male | 7,500 psi |
| **25771 *** | 0 - 20,000 psi | 4 1/2" | 1/2" NPT male | 10,000 psi |
| **51126** | 0 - 30,000 psi | 4" | 1/2" NPT male | 15,000 psi |
| **25037** | 0 - 35,000 psi | 4" | 9/16 MP male | 20,000 psi |

***** This is our most popular waterblast pressure gauge. For additional information refer to:
**PRESSURE GAUGES - SEVERE SERVICE STYLE, 0 - 20,000 psi.**

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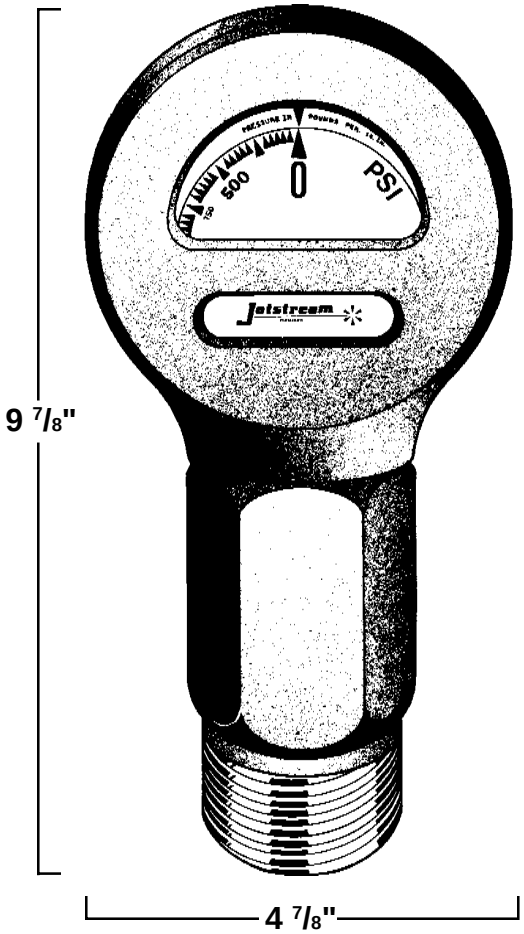
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# PRESSURE GAUGES

**OILFIELD STYLE, 0-20,000 psi**




**Part No. 26140**

**OILFIELD STYLE** gauge may be used continuously at any pressure level within its range without harm to gauge mechanism.

## FEATURES

Heavy duty **0-20,000 psi, OILFIELD STYLE** gauge gives accurate pressure readings and long service life. Internal dampening mechanism levels erratic pressure fluctuations yet allows fast response to normal pressure changes and smooth movement of dial face. Gauge may be used *continuously* at any pressure level within its range without harm to mechanism.

High strength heavy aluminum housing has clear, impact resistant polymer lens. Non-freeze liquid fill cushions and smoothes gauge movement, minimizing wear from vibration and mechanical shock.

Worn or damaged gauges can be *rebuilt* and *calibrated* for like new performance.

Gauge has combination 2" male pipe thread (NPT) and 1" female pipe thread connection. Weight: 9 lbs. **No. 26140.**

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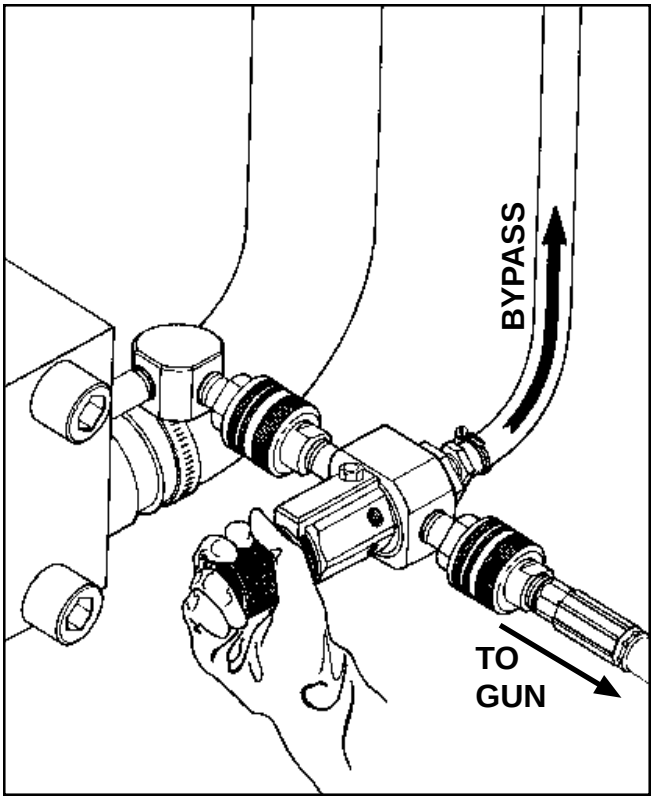
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# BY-PASS VALVES

**HAND AND WRENCH ADJUSTABLE**
**10,000 psi - 20,000 psi**






Hand-Adjustable By-Pass Valve



Wrench-Adjustable By-Pass Valve

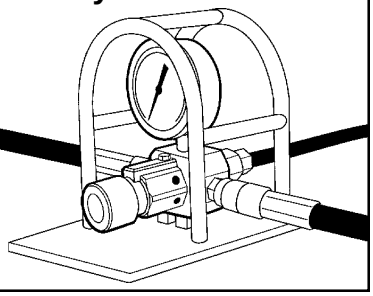
## I. FEATURES:

A By-Pass Valve is advised for all units, yet required on all electric driven units to control system pressure and flow. Electric driven pumps operate at a constant speed whereas an engine driven pump's speed and flow can be varied. Both valves allow you to vary your pump's flow without bogging the engine down and eliminates the use of your relief valve to throttle discharge water (bypassing water using your relief valve damages the relief valve's seating surfaces). The bypassed water can be diverted back to the water tank or to a drain.

The Hand-Adjustable By-Pass Valve is ideal for bypassing water on high volume units (over 12 GPM) when low nozzle flow rates are needed. The Hand-Adjustable By-Pass Valve is designed for mounting directly to your manifold, or as a remote in-line valve away from the pump. All wear components for the valve are in a single, one-piece cartridge for easy 5-minute field replacement. Available in stainless steel. Rated for 10,000, 15,000, or 20,000 psi.

The Wrench-Adjustable By-Pass Valve is ideal for bypassing water on low volume units (under 12 GPM) and electric driven units. The Wrench-Adjustable By-Pass Valve is compact in size, has cartridge-style ball and seat, and permanently mounts directly to your fluid cylinder or manifold. Available in plated steel. Rated for 10,000 psi.

**Remote Base-Mounted By-Pass Valve**



## II. SPECIFICATIONS:

| DESCRIPTION | PART NO. | HIGH PRESSURE CONNECTIONS | BY-PASS CONNECTION | OPERATING PRESSURE (PSI) |
|---|---|---|---|---|
| Hand-Adjustable | 51535 | 1/2" NPTF | 5/8" Hose Barb | 10,000 |
| Hand-Adjustable | 52175 | 1/2" NTPF | 5/8" Hose Barb | 15,000 |
| Hand-Adjustable | 52260 | 20K QD | 1/2" Hose Barb | 20,000 |
| Wrench-Adjustable | 51515 | 1/2" NPTM | 3/4" Hose Barb | 10,000 |

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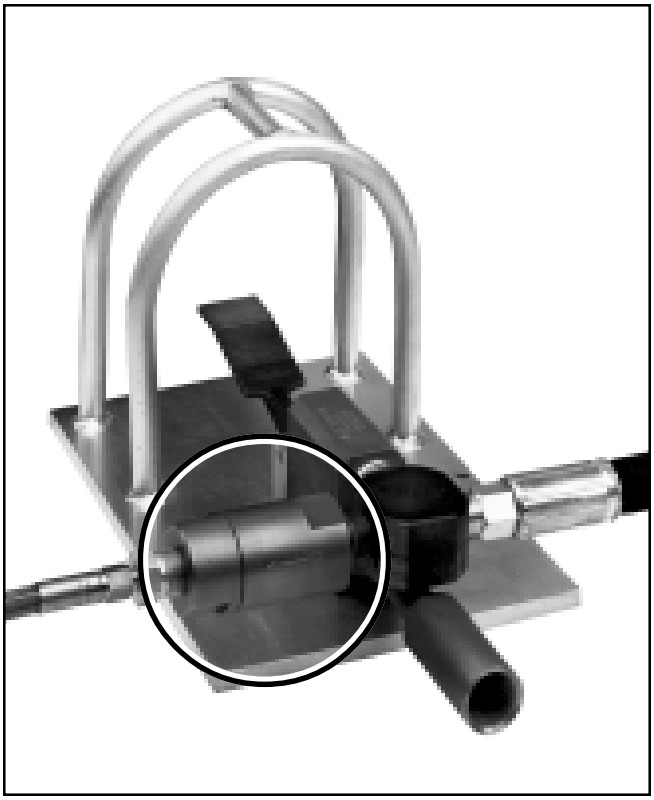
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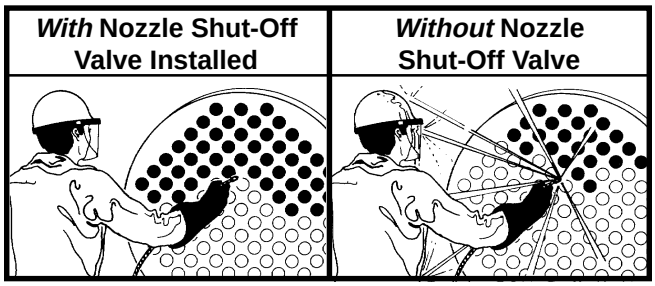
# NOZZLE SHUT-OFF VALVE

**10,000 psi - 20,000 psi**





15,000 psi model shown above




## I. FEATURES:

The Nozzle Shut Off Valve (NSOV) is designed for use with dump type foot valves. The Nozzle Shut Off Valve completely stops all water flow to the cleaning nozzle in a waterblast operation while the foot valve is in its dump mode. This allows the operator to freely move the nozzle without impairment of vision caused by sprayback (shown above). The Nozzle Shut Off Valve opens fully for unimpeded flow to the nozzle when the control valve is closed in its blasting mode. It mounts between the lance and the control valve (as shown above).

## II. SPECIFICATIONS:

| ASSEMBLY PART NO. | INLET CONNECTION | OUTLET CONNECTION | ASSEMBLY SIZE | ASSEMBLY WEIGHT | MAXIMUM OPERATING PRESSURE (PSI) |
|---|---|---|---|---|---|
| 51642 | 1/2" NPTM | 1/2" NPTF | 1-3/4" X 4-1/4" | 2 lbs | 15,000 |
| 52250 | 1.00" - 16 UN Male | 1.00" - 16 UN Female | 1-3/4" X 4-1/4" | 2 lbs | 20,000 |

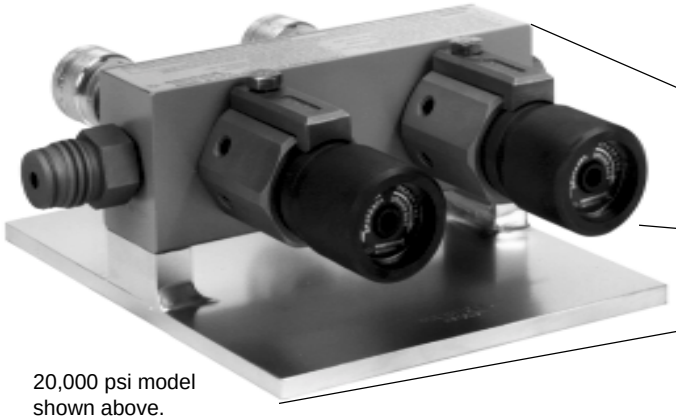
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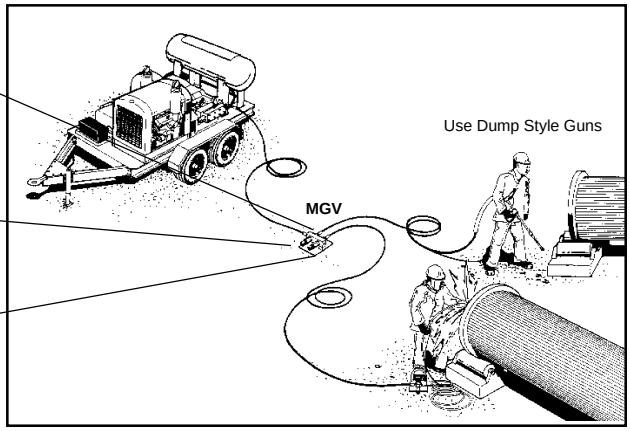
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# MULTIGUN VALVE (MGV)

**10,000 - 20,000 psi**



20,000 psi model shown above.




## I. FEATURES:

The MGV (Multigun Valve) allows two dump style waterblast guns to be operated independently when connected to one waterblast pump. The MGV will divide the pump's total flow between the guns and will maintain system pressure when either or both guns are dumping. The MGV setup is fast and easy, two large dials make it easy to hand dial your pressure, there are no difficult adjustments or internal orifices, and repair is completed in 3 minutes in the field because of cartridge designed replacement parts. The MGV is constructed of Stainless Steel.

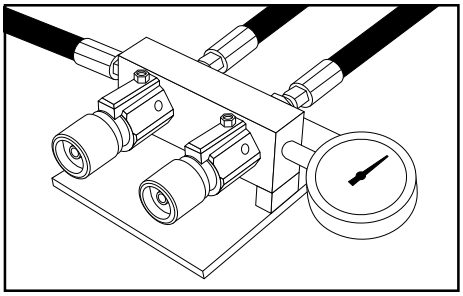
The MGV is available in 10,000, 15,000, and 20,000 psi ranges. An optional gauge is also recommended for remote use.

## II. SPECIFICATIONS:

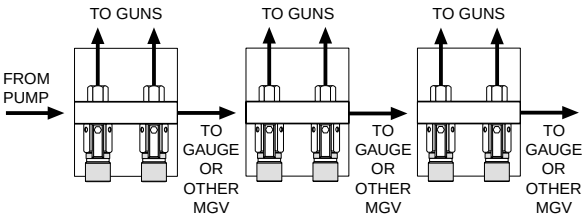
| ASSEMBLY PART NO. | INLET CONNECTION | OUTLET (GUN) CONNECTIONS | OUTLET (GAUGE) CONNECTION | CARTRIDGE PART NO. | MAXIMUM OPERATING PRESSURE (PSI) | OPTIONAL GAUGE PART NO. |
|---|---|---|---|---|---|---|
| 50905 | 1/2" NPTF | 1/2" NPTF | 3/4" NPTF | 50825 | 10,000 | 25771 |
| 51785 | 1/2" NPTF | 1/2" NPTF | 3/4" NPTF | 50234 | 15,000 | 51126 |
| 52190 | 20K QD M | 20K QD FM | 1.00" - 16 UN | 52255 | 20,000 | 52497 * |

* Includes Gland, Collar, and Adapter

## III. OPTIONAL PRESSURE GAUGE



## IV. MULTIPLE MGV SETUP




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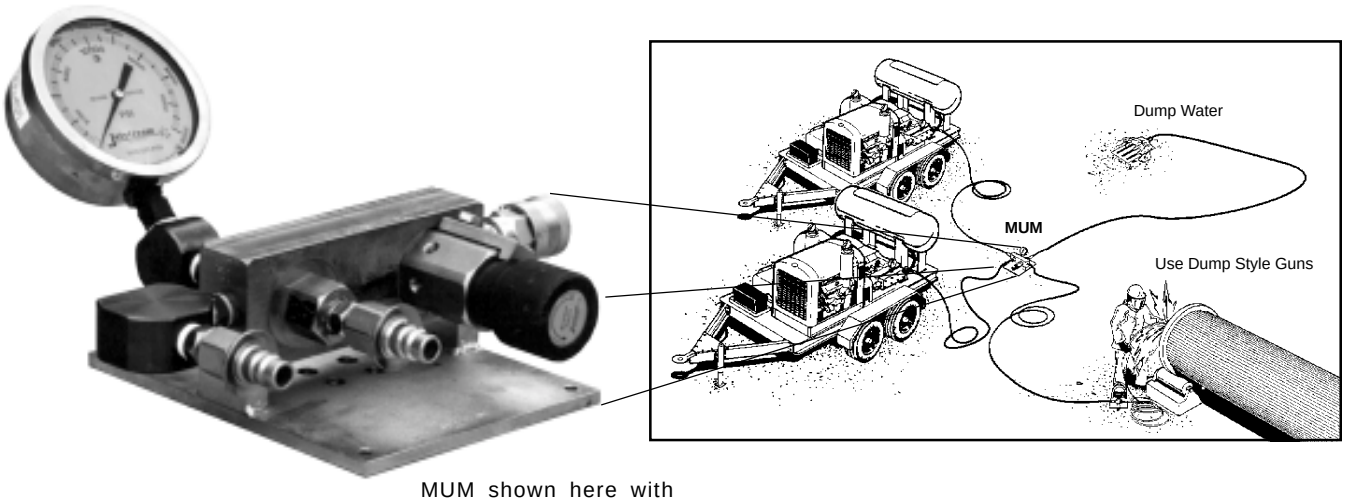
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# MULTI-UNIT MANIFOLD (MUM)

**10,000 - 20,000 psi**




MUM shown here with optional Quick Disconnects

## I. FEATURES:

The MUM (Multi-Unit Manifold) allows one dump-style gun to maximize use of two different waterblast pumps at the same time for use in jobs that require larger flows. The MUM will combine the two pumps' total flow to a single gun. The MUM setup is fast and easy, and the large dial makes it easy to hand dial your pressure. There are no difficult adjustments or internal orifices, and repair is completed in 3 minutes in the field because of cartridge designed replacement parts. The MUM is constructed of Stainless Steel and comes standard with a built-in By-Pass Valve and Gauge.

The MUM is available in 10,000, 15,000, and 20,000 psi ranges.

## II. SPECIFICATIONS:

| ASSEMBLY PART NO. | INLET THREAD | OUTLET THREAD | CARTRIDGE PART NO. | MAXIMUM OPERATING PRESSURE (PSI) |
|---|---|---|---|---|
| 52835 | 1/2" NPTF | 3/4" NPTF | 50825 | 10,000 |
| 52840 | 1/2" NPTF | 3/4" NPTF | 50234 | 15,000 |
| 52845 | 1.00" - 16 UN PORT | 1.00" - 16 UN PORT | 52255 | 20,000 |

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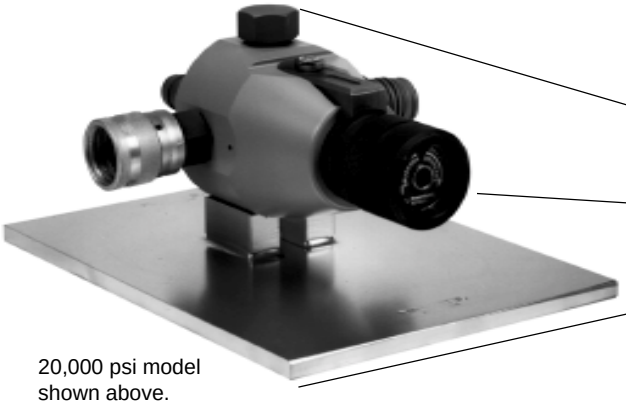
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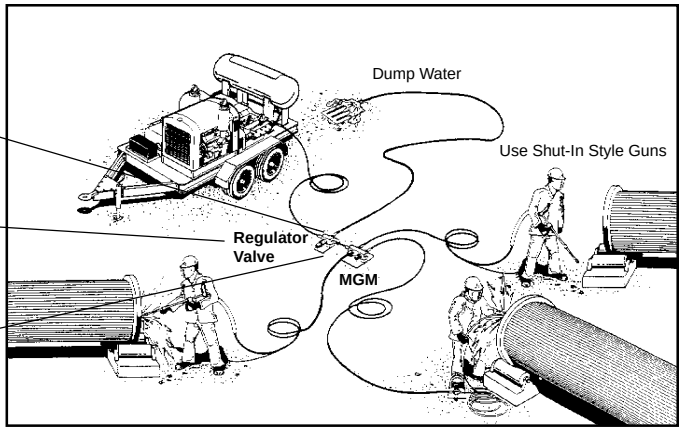
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# SHUT-IN REGULATOR VALVE

**15,000 - 20,000 psi**



20,000 psi model shown above.




## I. FEATURES:

The Shut-In Regulator Valve allows for pressure adjustment while running multiple shut-in guns off a single pump. The Shut-In Regulator Valve is required for use with shut-in style guns and systems.

The Shut-In Regulator Valve is easily hand-adjustable (no wrenches required) for easy and reliable operation and is equipped with an adjustment lock. A removable base is available for optional remote mounting. The Shut-In Regulator Valve diverts dump water from the foot and/or hand gun to a remote location, tank or drain. The Shut-In Regulator Valve operates without the need for nitrogen or external air pressure, and is constructed of stainless steel.

All of the Shut-In Regulator's wear components are in cartridge form to allow for quick and simple 3-minute field replacement.

## II. SPECIFICATIONS:

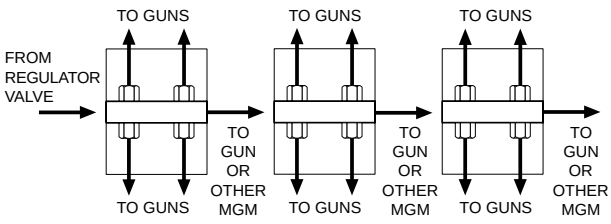
| ASSEMBLY PART NO. | INLET CONNECTION | OUTLET (GUN) CONNECTIONS | OUTLET (GAUGE) CONNECTION | OUTLET (DUMP) CONNECTION | OPTIONAL GAUGE PART NO. | CARTRIDGE PART NO. | MAXIMUM OPERATING PRESSURE (PSI) |
|---|---|---|---|---|---|---|---|
| 52690 | 3/4" NPTF | 3/4" NPTF | 3/4" NPTF | 5/8" Hose Barb | 51126 | 52695 | 15,000 |
| 52720 | 20K QD M | 20K QD FM | 1.00" - 16 UN | 5/8" Hose Barb | 52497 * | 52725 | 20,000 |

* Includes Gland, Collar, and Adapter

## III. OPTIONAL PRESSURE GAUGE AND CAGE



## IV. MULTIPLE MULTI-GUN MANIFOLD SETUP




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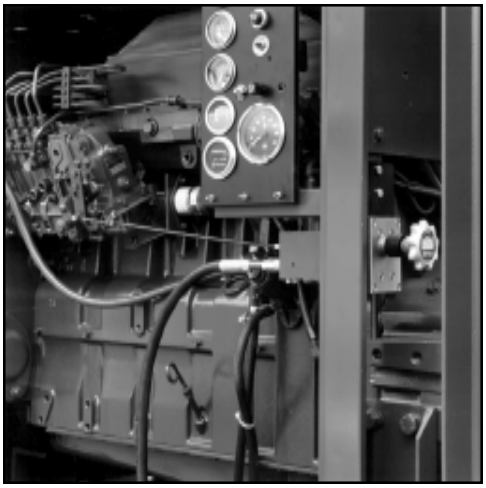
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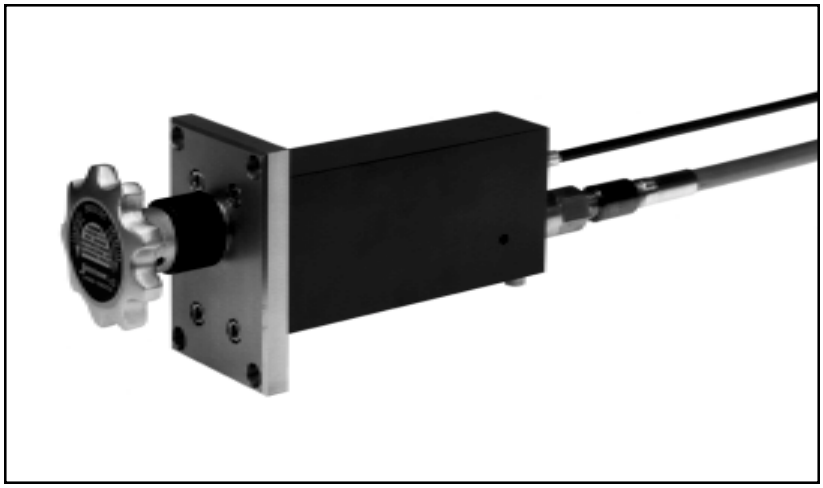
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# HYDRAULIC THROTTLE CONTROL

**15,000 - 20,000 psi**





## I. FEATURES:

The Jetstream Hydro-Throttle is a hydraulic throttle control unit for use in a dump or shut-in type waterblast system. It enables the operator to control the engine speed from the blast gun location. When the gun trigger is depressed, the Hydro-Throttle senses the change in discharge pressure and increases the engine rpm to a desired setting. When the gun trigger is released, the engine returns to idle. This saves water and fuel and reduces wear on the pump and the engine.

The Jetstream Hydro-Throttle has a number of features that other hydraulic throttle controls do not have. The unit can be panel-mounted or bracketed. The unit is easily hand-adjustable at any pressure (this is because the adjustment is against a spring, not the system pressure). The control cable is very flexible to simplify routing and to minimize drag. The pressure cylinder is an easily replaceable cartridge. All that is necessary to change from 15,000 psi to 20,000 psi is to change the cartridge and hose.

## II. SPECIFICATIONS:

| ASSEMBLY PART NO. | CONNECTION THREAD ** | CARTRIDGE PART NO. | ASSEMBLY SIZE * (L x W x H) | ASSEMBLY WEIGHT | MAXIMUM OPERATING PRESSURE (PSI) |
|---|---|---|---|---|---|
| 51900 | 1/4" NPTM | 51899 | 11-1/2" x 2-1/2" x 5-1/2" | 5 lbs | 15,000 |
| 52050 | 3/8" RGD LNC. Male | 51963 | 11-1/2" x 2-1/2" x 5-1/2" | 5 lbs | 20,000 |

* The cable and hose lengths are not included in the Assembly Size (length).

** Assembly requires FM x FM Coupling *or* a 90° Elbow and a hose.

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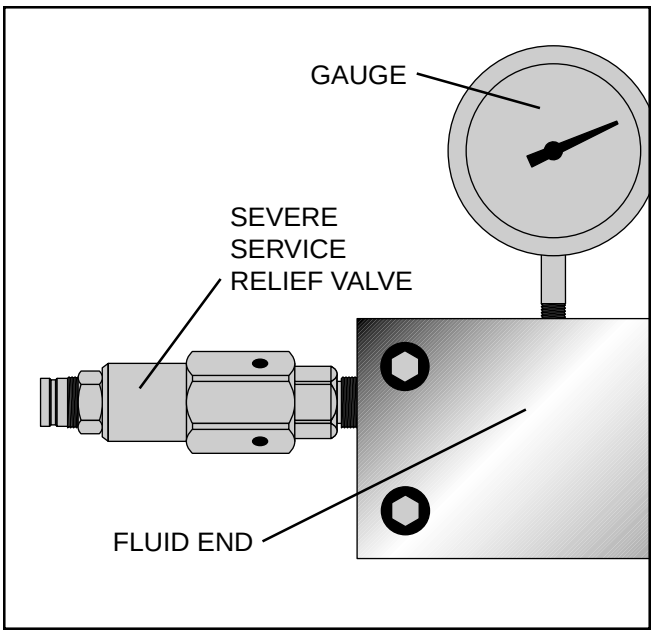
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# SEVERE SERVICE RELIEF VALVE

**10,000 - 20,000 psi**

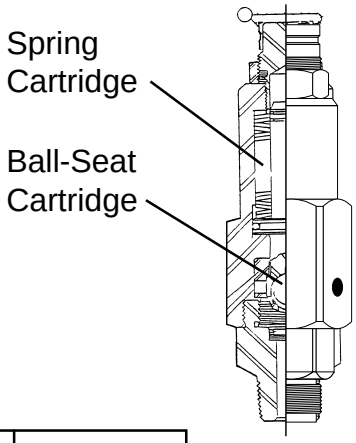





## I. FEATURES:

The Severe Service Relief Valve is manufactured for rigorous waterblast service and is specifically designed for low maintenance in this service. Ball-Seat and Spring assemblies are packaged in cartridge replacement form to allow for quick and simple field repair without disturbing the current setting.

The Severe Service Relief Valve is shipped from the factory preset and tested at a set pressure specified by the customer. A blue anti-tamper ring is seal-wired to valve's adjusting screw to prevent set pressure from being changed without evidence. Factory set pressure is stamped into anti-tamper ring.




## II. SPECIFICATIONS:

| ASSEMBLY PART NO. | CONNECTION THREAD (MALE) | BALL SIZE | BALL MATERIAL | BALL-SEAT CARTRIDGE PART NO. | MAX. SET PRESSURE |
|---|---|---|---|---|---|
| 51475 * | 1/2" NPT | 1/2" | Stainless Steel | 51489 | 18,000 psi |
| 51470 * | 1/2" NPT | 1/2" | Tungsten Carbide | 51500 | 18,000 psi |
| 52220 * | 3/4" NPT | 1/2" | Stainless Steel | 51489 | 18,000 psi |
| 51945 * | 3/4" NPT | 1/2" | Tungsten Carbide | 51500 | 18,000 psi |
| 51940 * | 3/4" NPT | 3/4" | Stainless Steel | 51486 | 12,000 psi |
| 51280 * | 3/4" NPT | 3/4" | Tungsten Carbide | 51505 | 12,000 psi |
| 51460 * | 1" NPT | 3/4" | Stainless Steel | 51486 | 12,000 psi |
| 51450 * | 1" NPT | 3/4" | Tungsten Carbide | 51505 | 12,000 psi |
| 52030 | 1.00"-16 UN | 3/8" | Tungsten Carbide | 50133 | 24,000 psi |
| 50131 | 9/16" MP AE | 3/8" | Tungsten Carbide | 50133 | 24,000 psi |

***** To order, decide on valve needed above and add the suffix below for the pressure range
**A** = 0 - 6,000 psi **B** = 6,000 - 12,000 psi **C** = 12,000 - 18,000 psi.

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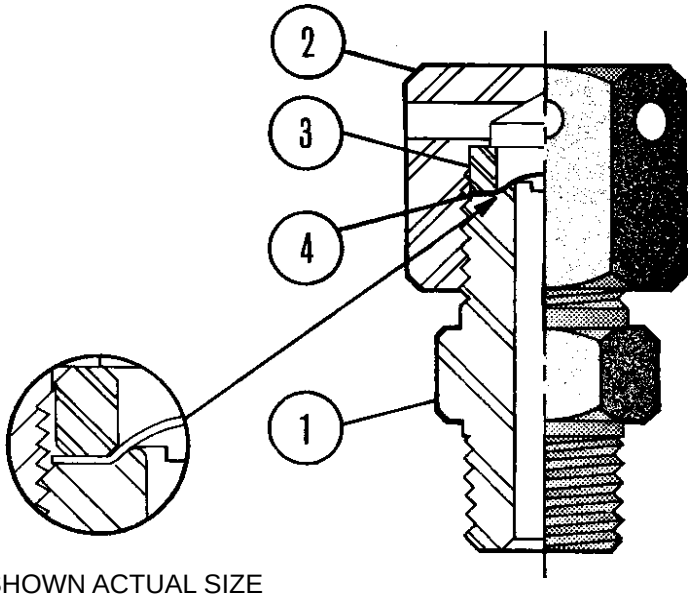
# PRESSURE RELIEF DEVICES

**RUPTURE DISC ASSEMBLY**
**15,000 psi**

## I. FEATURES:

For protection of all high pressure waterblast systems from dangerous overpressurization, high pressure Rupture Discs work like fuses in electrical circuits. When overpressurization occurs, Disc will blow and pressure is instantly relieved through diffusing ports. Requiring no calibration or presetting, Rupture Discs may be used as tamper-proof **primary** system protection or in **combination with a relief valve** for dependable backup protection.

Three piece stainless steel Disc Holder is designed for service with all waterblast or hydrostatic test pumps. Holder accepts only accurate, inexpensive JETSTREAM Discs. Unique **"coin proof" seat** makes dangerous use of coins (or other objects) difficult if not impossible. Discs may be exchanged or replaced quickly when cap is removed; Holder design makes incorrect reassembly impossible.




SHOWN ACTUAL SIZE

Order Complete **Disc Holder Assembly** as **Part No. 51035.** Order Appropriate Discs Separately.

## II. DISC SELECTION:

Select Disc Rating of approximately ***1.2 times*** desired operating pressure if the Rupture Disc Assembly is the primary relief device. Select Disc Rating of approximately ***1.4 times*** desired operating pressure if the Rupture Disc Assembly is the secondary, or backup, relief device.

Discs are made of special alloy, corrosion resistant material.

| ITEM | QTY. | PART NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | 51033 | Base, 1/2" NPT |
| 2 | 1 | 51037 | Cap |
| 3 | 1 | 51040 | Ring, Hold down |
| 4 | 1 | 51047 * | Disc, 8,000 psi Burst |
| | | 51048 * | Disc, 10,000 psi Burst |
| | | 51049 * | Disc, 12,000 psi Burst |
| | | 51050 * | Disc, 14,000 psi Burst |
| | | 51051 * | Disc, 16,000 psi Burst |
| | | 51052 * | Disc, 20,000 psi Burst |

* Also fits Butterworth and NLB-style holders.

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Jetstream®
P.O. Box 79228, Houston, TX 77279
(800) 231-8192 (713) 462-7000
Fax: (713) 462-5387

# PRESSURE RELIEF DEVICES

**RUPTURE DISC ASSEMBLY**
**20,000 psi**

## I. FEATURES:

For protection of all high pressure waterblast systems from dangerous overpressurization, high pressure Rupture Discs work like fuses in electrical circuits. When overpressurization occurs, Disc will blow and pressure is instantly relieved through diffusing ports. Requiring no calibration or presetting, Rupture Discs may be used as tamper-proof **primary** system protection or in **combination with a relief valve** for dependable backup protection.

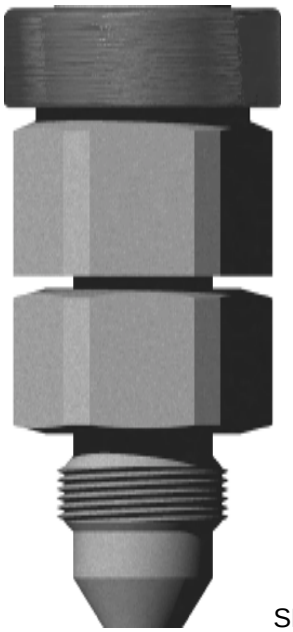
Three piece stainless steel Disc Holder is designed for service with all waterblast or hydrostatic test pumps. Holder accepts only accurate, inexpensive JETSTREAM Discs. Unique **"coin proof" seat** makes dangerous use of coins (or other objects) difficult if not impossible. Discs may be exchanged or replaced quickly when cap is removed; Holder design makes incorrect reassembly impossible.

## II. DISC SELECTION:

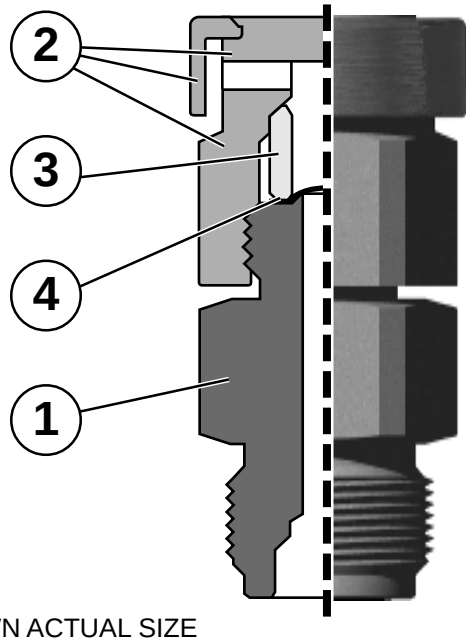
Select Disc Rating of approximately ***1.2 times*** desired operating pressure if the Rupture Disc Assembly is the primary relief device. Select Disc Rating of approximately ***1.4 times*** desired operating pressure if the Rupture Disc Assembly is the secondary, or backup, relief device.

Discs are made of special alloy, corrosion resistant material.

**Cone and Seat Rupture Disc Assembly**



**Port Connection Rupture Disc Assembly**




SHOWN ACTUAL SIZE

### Cone and Seat Rupture Disc Assembly

| ITEM | QTY. | PART NO. | DESCRIPTION |
|---|---|---|---|
| 1* | 1 | 51774 | Base, 20,000 psi Right Hand Thread |
| 2* | 1 | 51772 | Cap |
| 3* | 1 | 51773 | Ring, Hold Down |
| 4* | 1 | 51836 | Disc, 24,000 psi Burst |
| | | 51837 | Disc, 27,000 psi Burst |
| | | 51838 | Disc, 29,000 psi Burst |
| *Assy | | 51890 | Cone and Seat Rupture Disc Assembly |

### Port Connection Rupture Disc Assembly

| ITEM | QTY. | PART NO. | DESCRIPTION |
|---|---|---|---|
| 1** | 1 | 52043 | Base, 20,000 psi Jetstream Connection |
| 2** | 1 | 51772 | Cap |
| 3** | 1 | 52040 | Ring, Hold Down |
| 4** | 1 | 51836 | Disc, 24,000 psi Burst |
| | | 51837 | Disc, 27,000 psi Burst |
| | | 51838 | Disc, 29,000 psi Burst |
| **Assy | | 52035 | Port Connection Rupture Disc Assembly |

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