

Pilot operated, pressure reducing/relieving valve with drilled piston orifice

Capacity: 20 gpm (80 L/min.)

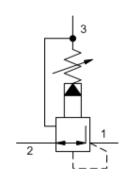
Functional Group:

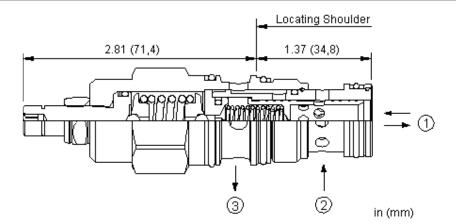
Products: Cartridges: Reducing/Relieving: 3 Port: Pilot Operated

Model:

Product Description

Pilot-operated, pressure reducing/relieving valves reduce a high primary pressure at the inlet (port 2) to a constant reduced pressure at port 1, with a full-flow relief function from port 1 to tank (port 3).





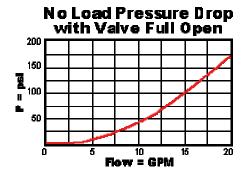
Technical Features

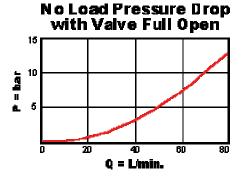
- These valves have the main stage orifice drilled into the piston rather than a staked-in orifice. This allows the valve to survive physically demanding applications.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 3000 psi (210 bar).
- All three-port pressure reducing and reducing/relieving cartridges are
 physically interchangeable (i.e. same flow path, same cavity for a
 given frame size). When considering mounting configurations, it is
 sometimes recommended that a full capacity return line (port 3) be
 used with reducing/relieving cartridges.
- Full reverse flow from reduced pressure (port 1) to inlet (port 2) may cause the main spool to close. If reverse free flow is required in the circuit, consider adding a separate check valve to the circuit.

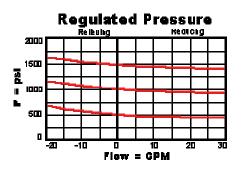
- If pilot flow consumption is critical, consider using direct acting reducing/relieving valves.
- Recommended maximum inlet pressure is determined by the adjustment range. Ranges D, E, N, and Q are tested with a 2000 psi (140 bar) maximum differential between inlet and reduced pressure. Ranges A, B, and H are tested with a 3000 psi (210 bar) maximum differential between inlet and reduced pressure. Ranges C and W are tested with 5000 psi (350 bar) of inlet pressure.
- Pilot operated valves exhibit exceptionally flat pressure/flow characteristics, are very stable and have low hysteresis.
- Pilot operated reducing, reducing/relieving valves by nature are not fast acting valves. For superior dynamic response, consider direct acting valves.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

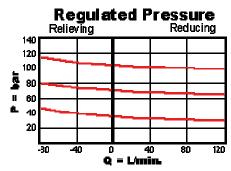
Technical Data

	U.S. Units	Metric Units
Cavity	T-2A	
Capacity	20 gpm	80 L/min.
Control Pilot Flow	10 - 15 in³/min.	0,16 - 0,25 L/min.
Factory Pressure Settings Established at	blocked control port (dead headed)	
Maximum Operating Pressure	5000 psi	350 bar
Series (from Cavity)	Series 2	
Adjustment - Number of Clockwise Turns to Increase Setting	5	
Valve Hex Size	1 1/8 in.	28,6 mm
Valve Installation Torque	45 - 50 lbf ft	60 - 70 Nm
Adjustment Screw Internal Hex Size	5/32 in.	4 mm
Adjustment Locknut/Cap Hex Size	9/16 in.	15 mm
Adjustment Nut Torque	80 - 90 lbf in.	9 - 10 Nm
Seal Kits - Cartridge	Buna: 990-202-007	
Seal Kits - Cartridge	Viton: 990-202-006	
Model Weight	0.60 lb.	0.27 kg.









PPFF-LAN

Control

Standard Options

C* Tamper Resistant - Factory Set

- **K** Handknob
- L Standard Screw Adjustment

Adjustment Range

Standard Options

- **A** 100 3000 psi (7 210 bar), 200 psi (14 bar) Standard Setting
- **B** 50 1500 psi (3,5 105 bar), 200 psi (14 bar) Standard Setting
- **N** 60 800 psi (4 55 bar), 200 psi (14 bar) Standard Setting
- **Q** 60 400 psi (4 28 bar), 200 psi (14 bar) Standard Setting
- **W** 100 5000 psi , 200 psi (14 bar) Standard Setting

Seal Material

Standard Options

- **N** Buna-N
- **V** Viton

Additional Options

Control Adjustment Range Seal Material

- O Handknob with Panel Mount
- **D** 25 800 psi (1,7 55 bar), 200 psi (14 bar) Standard Setting
- **E** 25 400 psi (1,7 28 bar), 200 psi (14 bar) Standard Setting
- **H** 30 3000 psi (2 210 bar), 200 psi (14 bar) Standard Setting
- **J** 25 1500 psi (1,7 105 bar), 200 psi (14 bar) Standard Setting
- **K** 75 1500 psi (5 105 bar), 200 psi (14 bar) Standard Setting
- **S** 25 200 psi (1,7 14 bar), 100 psi (7 bar) Standard Setting

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^{*} Special Setting required, specify at time of order Customer specified setting stamped on hex.