

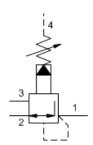
Pilot operated, pressure reducing/relieving valve with drain to port 4

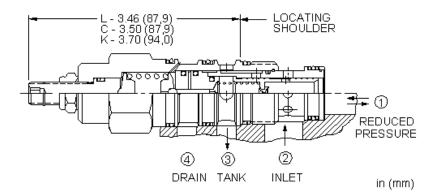
Capacity: 20 gpm (80 L/min.)

Model: PVFA

Product Description

Externally drained, 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). Draining the pilot section at port 4 makes these valves insensitive to pressure at tank (port 3) and provides a means for remote control by pilot or 2-way valves.





Technical Features

- Maximum pressure at port 3 should be limited to 3000 psi (210 bar)
- Pilot operated valves exhibit very low dead-band transition between reducing and relieving modes.
- 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.
- Pressure at port 4 should not exceed 5000 psi (350 bar).
- Pilot operated valves exhibit exceptionally flat pressure/flow characteristics, are very stable and have low hysteresis.

- Pressure on the drain (port 4) is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- Pilot operated reducing, reducing/relieving valves by nature are not fast acting valves. For superior dynamic response, consider direct acting valves.
- By controlling the pressure at the drain (port 4), the effective setting of the valve can be increased over the nominal valve setting.
- 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.

Special Notes

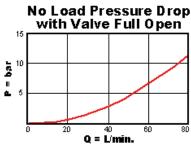
Maximum pressure differentials for spring ranges: A and B are 3000 psi (210 bar) D and E are 2000 psi (140 bar) W is 5000 psi (350 bar) inlet
pressure

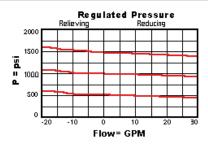
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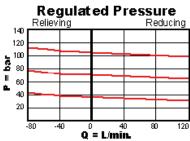
Cavity T₋22∆		U.S. Units	Metric Units		
Cavity	Cavity	T /	T-22A		

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: 990-022-007		
Seal Kits - Cartridge	Viton: 990-022-006		
Model Weight	0.74 lb.	0.34 kg.	









PVFA-LAN

Control			
ODTEOL			

Standard Options

C* Tamper Resistant - Factory

K Handknob

L Standard Screw Adjustment

Adjustment Range

Standard Options

A 100 - 3000 psi (7 - 210 bar), 200 psi (14 bar) Standard

B 50 - 1500 psi (3,5 - 105 bar), 200 psi (14 bar) Standard Setting

D 25 - 800 psi (1,7 - 55 bar), 200 psi (14 bar) Standard Setting

200 psi (14 bar) Standard

Seal Material

Standard Options

Buna-N Viton

E 25 - 400 psi (1,7 - 28 bar),

W 150 - 4500 psi (10,5 - 315 bar), 200 psi (14 bar) Standard Setting

Additional Options

Control

Adjustment Range

Seal Material

bar) Standard Setting

When the control is 8, the range must be $\bar{\rm D}$ or $\bar{\rm W}$

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

Related Models PVFA8