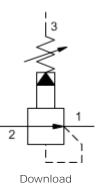


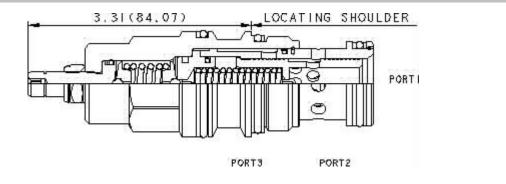
Pilot operated, pressure reducing valve

Functional Group: Products : Cartridges : Reducing : 3 Port : Pilot Operated Reducer

Product Description

Pilot-operated, pressure reducing valves reduce a high primary pressure at the inlet (port 2) to a constant reduced pressure at port 1, allowing circuits with multiple pressure requirements to be operated using a single pump.





Technical Features

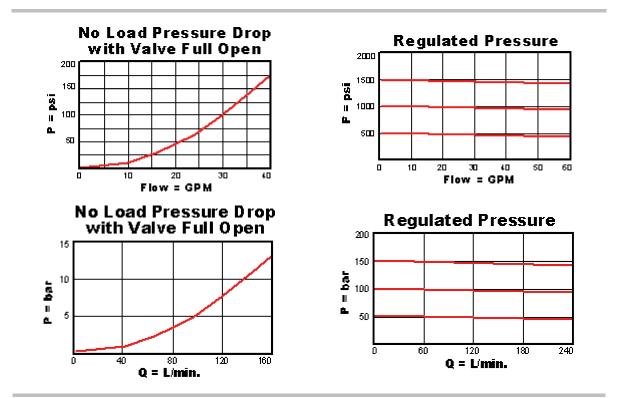
- Full reverse flow from reduced pressure (port 1) to inlet (port 2) may cause the main spool to close. If reverse free flow is required in the circuit, consider adding a separate check valve to the circuit.
- Main stage orifice is protected by a 150 micron stainless steel screen.
- Pilot operated valves 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

- 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 (200 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 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 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.

Capacity: 40 gpm (160 L/min.) Model:

PBHB-LAN

Technical Data			
	U.S. Units	Metric Units	
Model Weight	1.25 lb.	0.57 kg.	
Cavity	T-17A		
Capacity	40 gpm	160 L/min.	
Adjustment - Number of Clockwise Turns to Increase Setting	5		
Control Pilot Flow	15 - 20 in ³ /min.	0,25 - 0,33 L/min.	
Factory Pressure Settings Established at	blocked control port (dead headed)		
Maximum Operating Pressure	5000 psi	350 bar	
Series (from Cavity)	Series 3		
Valve Hex Size	1 1/4 in.	31,8 mm	
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm	
Adjustment Screw Hex Socket Size	5/32 in.	4 mm	
Adjustment Nut Hex Size	9/16 in.	15 mm	
Adjustment Nut Torque	108 lbf in.	12 Nm	
Seal Kits	Buna: 990-017-007		
Seal Kits	Viton: 990-017-006		



PBHB-LAN

External Material/Seal Material

Standard Scrow		100 - 3000 psi (7 - 210		
L Standard Screw Adjustment	+0.00	A bar), 200 psi (14 bar)	+0.00	N Buna-N +0.00
Aujustment		Standard Setting		

* Special Setting required, specify at time of order Customer specified setting stamped on hex \$1.10

Related Models PBHB8

- Explanation of Sun cartridge control options US units.
- Explanation of Sun cartridge control options metric units.

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