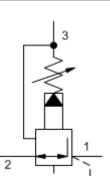


Pilot operated, pressure reducing/relieving valve

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

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).



Download

3.31(84.07) LOCATING SHOULDER PORTI PORT3 PORT2

Technical Features

- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- Pilot operated reducing, reducing/relieving valves by nature are not fast acting valves. For superior dynamic response, consider direct acting valves.
- Pilot operated valves exhibit exceptionally flat pressure/flow characteristics, are very stable and have low hysteresis.
- 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

- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 3000 psi (210 bar).
- 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.
- 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.
- If pilot flow consumption is critical, consider using direct acting reducing/relieving valves.

Capacity: 40 gpm (160 L/min.)

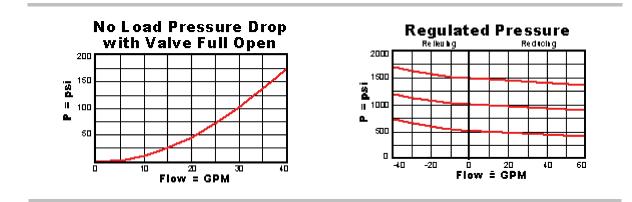
> Model: PPHB-LAN

adding a separate check valve to the circuit.

 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
1.23 lb.	0.56 kg.
T-17A	
40 gpm	160 L/min.
5	
15 - 20 in³/min.	0,25 - 0,33 L/min.
blocked control port (dead headed)	
5000 psi	350 bar
Series 3	
1 1/4 in.	31,8 mm
150 - 160 lbf ft	200 - 215 Nm
5/32 in.	4 mm
9/16 in.	15 mm
108 lbf in.	12 Nm
Buna: 990-017-007	
Viton: 990-017-006	
	1.23 lb. T- 40 gpm 15 - 20 in ³ /min. blocked control p 5000 psi Ser 1 1/4 in. 150 - 160 lbf ft 5/32 in. 9/16 in. 108 lbf in. Buna: 99



PPHB-LAN

Control

Adjustment Range

External Material/Seal Material

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

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

PPHB8

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

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