

Pilot operated, pressure reducing/relieving valve

Capacity:

Functional Group:

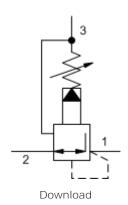
80 gpm (320 L/min.) Model:

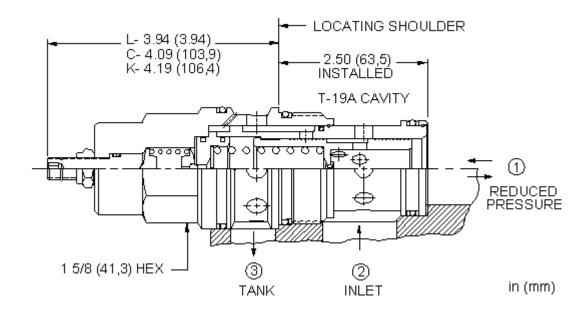
Products: Cartridges: Reducing/Relieving: 3 Port: Pilot Operated

PPJB-LBN

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

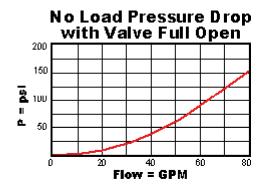
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- Pilot operated reducing, reducing/relieving valves by nature are not fast acting valves. For superior dynamic response, consider direct acting valves.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio 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.
- Pilot operated valves exhibit exceptionally flat
- All three-port pressure reducing and

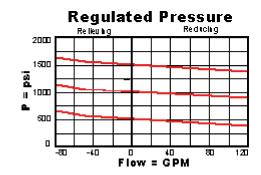
pressure/flow characteristics, are very stable and have low hysteresis.

- 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 If pilot flow consumption is critical, consider using 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.
 - direct acting reducing/relieving 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.

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recrifical Data		
	U.S. Units	Metric Units
Model Weight	2.82 lb.	1.28 kg.
Cavity	T-19A	
Capacity	80 gpm	320 L/min.
Adjustment - Number of Clockwise Turns to Increase Setting	5	
Control Pilot Flow	15 - 20 in³/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 4	
Valve Hex Size	1 5/8 in.	41,3 mm
Valve Installation Torque	350 - 375 lbf ft	465 - 500 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: 990-019-007	
Seal Kits	Viton: 990-019-006	





PPJB-LBN

Adjustment Range

Control

External Material/Seal Material

L Standard Screw Adjustment

50 - 1500 psi (3,5 -+0.00 B 105 bar), 200 psi (14 bar) Standard Setting

+0.00 N Buna-N +0.00

Customer specified setting stamped on hex \$1.10 Related Models PPJB8

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

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