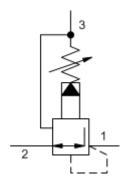
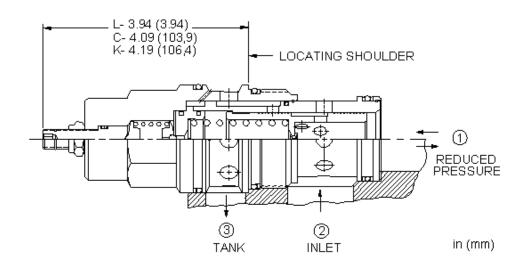
CAPACITY: 80 gpm / CAVITY: T-19A



sunhydraulics.com/model/PPJB





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 DATA NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-19A		
Series	4		
Capacity	80 gpm		
Maximum Operating Pressure	5000 psi		
Control Pilot Flow	15 - 20 in³/min.		
Factory Pressure Settings Established at	blocked control port (dead headed)		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Valve Hex Size	1 5/8 in.		
Valve Installation Torque	350 - 375 lbf ft		
Adjustment Screw Internal Hex Size	5/32 in.		
Locknut Hex Size	9/16 in.		
Locknut Torque	80 - 90 lbf in.		
Model Weight	3.10 lb		
Seal kit - Cartridge	Buna: 990-019-007		
Seal kit - Cartridge	Polyurethane: 990-019-002		
Seal kit - Cartridge	Viton: 990-019-006		

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

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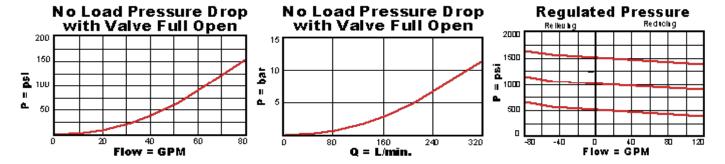
OPTION SELECTION EXAMPLE: PPJBLANN

CONTROL	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob W Hex Wrench Adjustment Y Tri-Grip Handknob 	et	 A 100 - 3000 psi (7 - 210 b) (14 bar) Standard Setting B 50 - 1500 psi (3,5 - 105 b) psi (14 bar) Standard Se D 25 - 800 psi (1,7 - 55 bar) (14 bar) Standard Setting 	ear), 200 titing), 200 psi	N Buna-N E EPDM V Viton		Standard Material/Coating IAP Stainless Steel, Passivated ILH Mild Steel, Zinc-Nickel
		E 25 - 400 psi (1,7 - 28 bar (14 bar) Standard Setting				
		N 60 - 800 psi (4 - 55 bar), bar) Standard Setting	200 psi (14			
		Q 60 - 400 psi (4 - 28 bar), bar) Standard Setting	200 psi (14			
		W 150 - 4500 psi (10,5 - 31 psi (14 bar) Standard Se	,.			

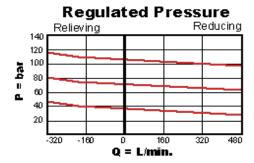
TECHNICAL FEATURES

- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 3000 psi (210 bar).
- Maximum pressure at port 3 should be limited to 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 (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.
- 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.
- 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.

PERFORMANCE CURVES



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