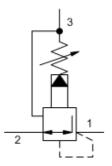
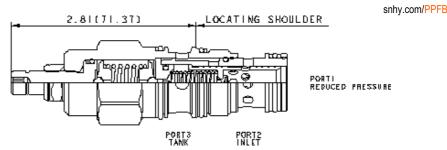
MODEL PPFB

TECHNICAL DATA







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).

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

CONFIGURATION

L	Control	Standard Screw Adjustment	
Q	Adjustment Range	60 - 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting	
Ν	Seal Material	Buna-N	
(none) Material/Coating		Standard Material/Coating	

Cavity	T-2A		
Series	2		
Capacity	80 L/min.		
Factory Pressure Settings Established at	blocked control port (dead headed)		
Maximum Operating Pressure	350 bar		
Control Pilot Flow	0,16 - 0,25 L/min.		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Valve Hex Size	28,6 mm		
Valve Installation Torque	61 - 68 Nm		
Adjustment Screw Internal Hex Size	4 mm		
Locknut Hex Size	15 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990202007		
Seal kit - Cartridge	EPDM: 990202014		
Seal kit - Cartridge	Polyurethane: 990002002		
Seal kit - Cartridge	Viton: 990202006		
Model Weight	0.27 kg.		

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
For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

CONFIGURATION OPTIONS

Model Code Example: PPFBLQN

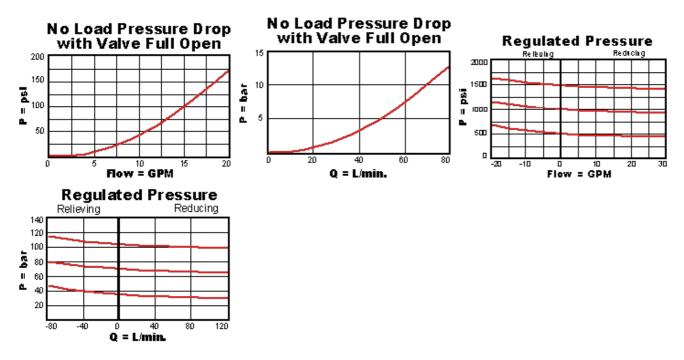
CONTROL	(L) ADJUSTMENT RANGE (Q)	SEAL MATERIAL	(N)	MATERIAL/COATING
L Standard Screw Adjustment	Q 60 - 400 psi (4 - 28 bar), 200 psi (14	N Buna-N		Standard Material/Coating
C Tamper Resistant - Factory Set	bar) Standard Setting	E EPDM		/AP Stainless Steel, Passivated
K HandknobM Capped Screw Adjustment with	A 100 - 3000 psi (7 - 210 bar), 200 psi (14 bar) Standard Setting	V Viton		/LH Mild Steel, Zinc-Nickel
Lockwire Holes	W 150 - 4500 psi (10,5 - 315 bar), 200 psi			
Q Capped and Lockwired	(14 bar) Standard Setting			
W Hex Wrench Adjustment	B 50 - 1500 psi (3,5 - 105 bar), 200 psi			

- Y Tri-Grip Handknob
- (14 bar) Standard Setting **N** 60 - 800 psi (4 - 55 bar), 200 psi (14 bar) Standard Setting

TECHNICAL FEATURES

- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 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.
- W and Y controls (where applicable) can be specified with or without a special setting. When no special setting is specified, the valve is adjustable throughout its full range using the W or Y control. When a special setting is specified, this setting represents the maximum setting of the valve.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- 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.
- 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.
- 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.
- 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



RELATED MODELS

<u>PPFB8</u> Pilot operated, pressure reducing/relieving main stage with integral T-8A control cavity