

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.

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

CONFIGURATION

L	Control	Standard Screw Adjustment	TECHNICAL DATA
W	Adjustment Range	150 - 4500 psi (10,5 - 315 bar), 200 psi (14 bar) Standard Setting	Cavity
			Series
N	Seal Material	Buna-N	Capacity
(none) Material/Coating		Standard Material/Coating	Factory Pressure Settings

),	Cavity	T-2A	
	Series	2	
_	Capacity	80 L/min.	
	Factory Pressure Settings Established at	blocked control port (dead headed)	
	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	0.29 kg.	

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

bar) Standard Setting **Q** 60 - 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting

CONFIGURATION OPTIONS

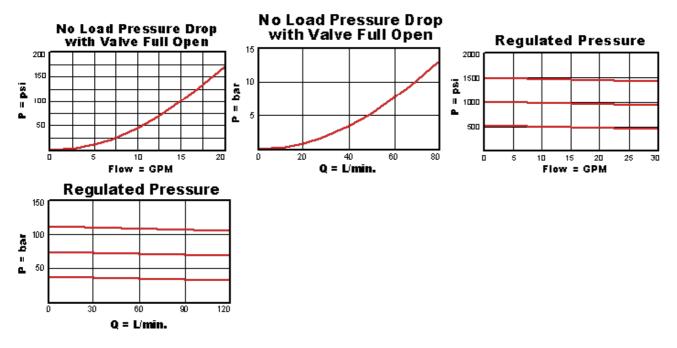
Model Code Example: PBFFLWN

CONTROL	(L) ADJUSTMENT RANGE (W)	SEAL MATERIAL (N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob 	 W 150 - 4500 psi (10,5 - 315 bar), 200 psi (14 bar) Standard Setting A 100 - 3000 psi (7 - 210 bar), 200 psi (14 bar) Standard Setting B 50 - 1500 psi (3,5 - 105 bar), 200 psi (14 bar) Standard Setting 	E EPDM	Standard Material/Coating /LH Mild Steel, Zinc-Nickel
	N 60 - 800 psi (4 - 55 bar), 200 psi (14		

TECHNICAL FEATURES

- These valves have the main stage orifice drilled into the piston rather than a staked-in orifice. This allows the valve to survive physically demanding applications.
- 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.
- 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.
- 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.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- · 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 due to excessive installation torque and/or cavity/cartridge
 machining variations.

PERFORMANCE CURVES



RELATED MODELS

• PBFF8 Pilot-operated, pressure reducing main stage with drilled piston orifice and integral T-8A control cavity