



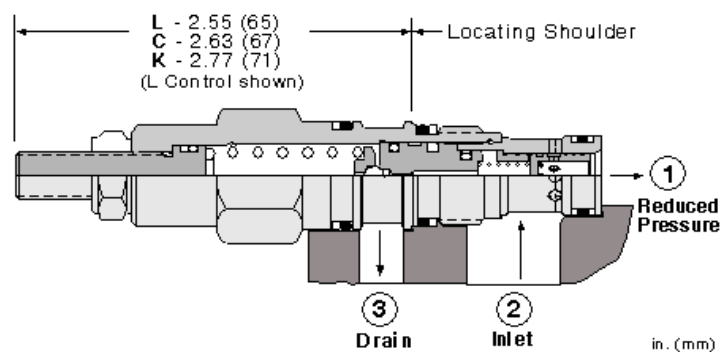
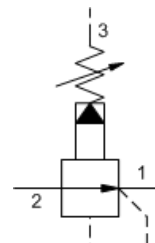
Pilot operated, pressure reducing valve

Capacity:
5 gpm (20 L/min.)

Model:
PBBB

Product Description

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.



Technical Features

- 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.
- Minimum setting is 75 psi (5 bar) for all spring ranges.
- 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).
- 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.

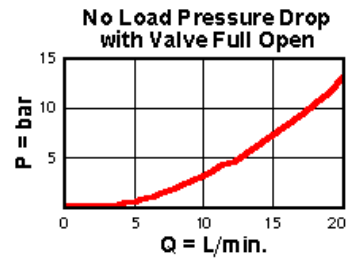
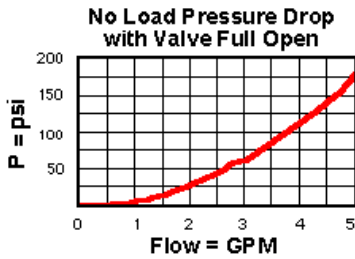
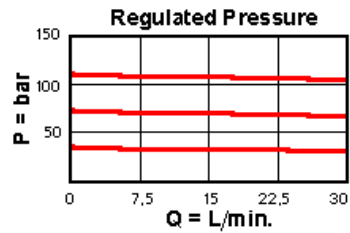
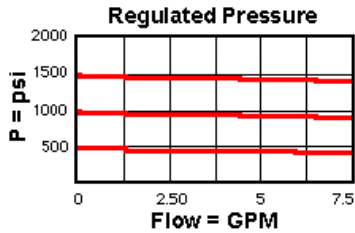
Special Notes

- 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.

Technical Data

	U.S. Units	Metric Units
Cavity	T-163A	
Capacity	5 gpm	20 L/min.
Control Pilot Flow	7 - 10 in ³ /min.	0,11 - 0,16 L/min.
Factory Pressure Settings Established at	blocked control port (dead headed)	
Maximum Operating Pressure	5000 psi	350 bar
Series (from Cavity)	Series 0	
Adjustment - Number of Clockwise Turns to Increase Setting	5	
Valve Hex Size	3/4 in.	19,1 mm
Valve Installation Torque	20 - 25 lbf ft	27 - 33 Nm
Adjustment Screw Internal Hex Size	5/32 in.	4 mm
Adjustment Locknut/Cap Hex Size	9/16 in.	15 mm
Adjustment Nut Torque	80 - 90 lbf in.	9 - 10 Nm

Seal Kits - Cartridge	Buna: 990-163-007	
Seal Kits - Cartridge	Viton: 990-163-006	
Model Weight	0.25 lb.	0.11 kg.



PBBB-LAN

Control	Adjustment Range	Seal Material	Material/Coating Modifier
Preferred Options	Preferred Options	Preferred Options	Preferred Options
L Standard Screw Adjustment Standard Options	A 75 - 3000 psi (5 - 210 bar), 200 psi (14 bar) Standard Setting	N Buna-N Standard Options	No modifier (standard material with no special coating) Special Options
C* Tamper Resistant - Factory Set	W 75 - 4500 psi (5 - 315 bar), 200 psi (14 bar) Standard Setting	V Viton	/ AP Stainless Steel, Passivated
K Handknob	Standard Options		Control:L
	B 75 - 1500 psi (5 - 105 bar), 200 psi (14 bar) Standard Setting		
	N 75 - 800 psi (5 - 55 bar), 200 psi (14 bar) Standard Setting		
	Q 75 - 400 psi (5 - 28 bar), 200 psi (14 bar) Standard Setting		

When the modifier is /AP, the control must be L

* Special Setting required, specify at time of order
Customer specified setting stamped on hex.

Our stainless product line is growing! If you are interested in a stainless option for this model which is not shown please contact Sun.