

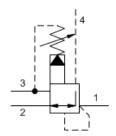
### Ventable, pilot operated, pressure reducing/relieving valve

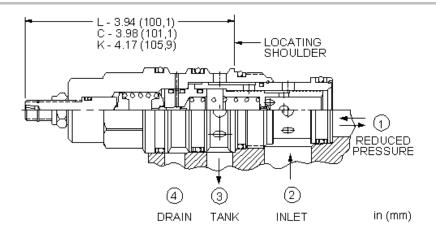
Capacity: 40 gpm (160 L/min.)

> Model: **PVHB**

#### Product Description

Ventable, pilot-operated pressure reducing/relieving valves reduce a high primary pressure at the inlet to a constant reduced pressure at port 1, with a full-flow relief function from port 1 to tank (port 3). The vent port (port 4) can be used as a means for remote control by pilot or 2-way valves.





#### Technical Features

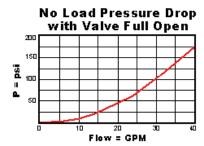
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio
   Pilot operated valves exhibit exceptionally flat pressure/flow and should not exceed 3000 psi (210 bar).
- Full reverse flow from reduced pressure (port 1) to inlet (port 2) may cause the main spool to close. If reverse free flow is required in the circuit, consider adding a separate check valve to the circuit.
- Pilot operated valves exhibit very low dead-band transition between reducing and relieving modes.
- 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.
- characteristics, are very stable and have low hysteresis.
- By controlling the pressure at the vent (port 4), the effective setting of the valve can be controlled below the nominal valve setting.
- 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.

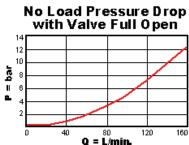
### Special Notes

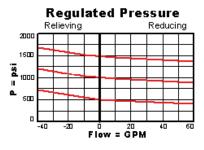
Maximum pressure differentials for spring ranges: A and B are 3000 psi (210 bar) D and E are 2000 psi (140 bar) W is 5000 psi (350 bar) inlet pressure

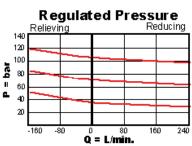
Technical Data			
	U.S. Units	Metric Units	
Cavity	T-23	T-23A	
Capacity	40 gpm	160 L/min.	

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 3	
Adjustment - Number of Clockwise Turns to Increase Setting	5	
Valve Hex Size	1 1/4 in.	31,8 mm
Valve Installation Torque	150 - 160 lbf ft	200 - 215 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: 990-023-007	
Seal Kits - Cartridge	Viton: 990-023-006	
Model Weight	1.55 lb.	0.70 kg.









## PVHB-LAN

# Control Adjustment Range Seal Material Standard Options Standard Options Standard Options

- C\* Tamper Resistant Factory Set
- K Handknob
- L Standard Screw Adjustment
- 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
- D 25 800 psi (1,7 55 bar),200 psi (14 bar) StandardSetting
- E 25 400 psi (1,7 28 bar), 200 psi (14 bar) Standard Setting
- W 150 4500 psi (10,5 315 bar), 200 psi (14 bar) Standard Setting

N Buna-N V Viton

Additional Options

Control Adjustment Range Seal Material

bar) Standard Setting J 25 - 1500 psi (1,7 - 105 bar), 200 psi (14 bar) Standard Setting

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

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