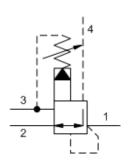




Ventable, pilot-operated, pressure reducing/relieving valve with drilled piston orifice

SERIES 3 / CAPACITY: 160 L/min. / CAVITY: T-23A





Sunhydraulics.com/model/PVHD 3.93(\$9.82) LOCATING SHOULDER PORTI

CONFIGURATION

L	Control	Standard Screw Adjustment
W	Adjustment Range	150 - 4500 psi (10,5 - 315 bar), 200 psi (14 bar) Standard Setting
N	Seal Material	Buna-N
(none) Material/Coating		Standard Material/Coating

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 DATA

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

Cavity	T-23A
Series	3
Capacity	160 L/min.
Factory Pressure Settings Established at	blocked control port (dead headed)
Maximum Operating Pressure	350 bar
Control Pilot Flow	0,25 - 0,33 L/min.
Adjustment - No. of CW Turns from Min. to Max. setting	5
Valve Hex Size	31,8 mm
Valve Installation Torque	203 - 217 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990023007
Seal kit - Cartridge	Polyurethane: 990023002
Seal kit - Cartridge	Viton: 990023006
Model Weight	0.70 kg.

CONFIGURATION OPTIONS

Model Code Example: PVHDLWN

L Standard Screw Adjustment

- C Tamper Resistant Factory Set
- K Handknob

CONTROL

W 150 - 4500 psi (10,5 - 315 bar), 200 psi (14 bar) Standard Setting

(L) ADJUSTMENT RANGE

- **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) Standard Setting
- **E** 25 400 psi (1,7 28 bar), 200 psi (14 bar) Standard Setting
- **H** 30 3000 psi (2 210 bar), 200 psi (14 bar) Standard Setting
- J 25 1500 psi (1,7 105 bar), 200 psi (14 bar) Standard Setting

(W) SEAL MATERIAL
psi N Buna-N

V Viton

Standard Material/Coating

(N) MATERIAL/COATING

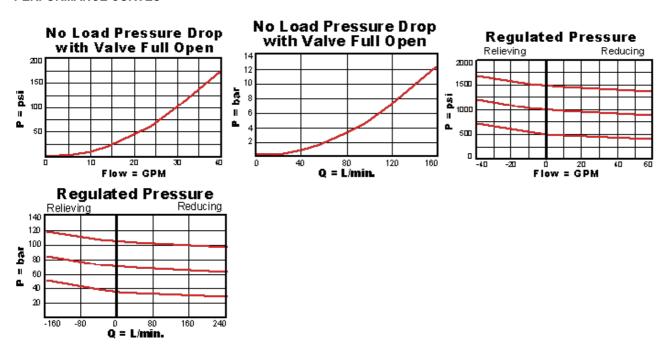
/AP Stainless Steel, Passivated

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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.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio 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.
- Pilot operated valves exhibit exceptionally flat pressure/flow 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.

PERFORMANCE CURVES



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