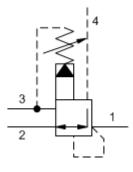
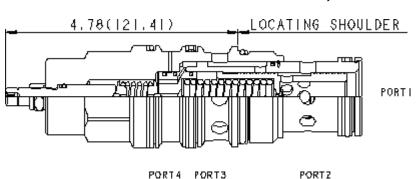


Ventable, pilot-operated, pressure reducing/relieving valve CAPACITY: 80 gpm / CAVITY: T-24A



sunhydraulics.com/model/PVJB





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-24A
Series	4
Capacity	80 gpm
Maximum Operating Pressure	5000 psi
Control Pilot Flow	15 - 20 in³/min.
Factory Pressure Settings Established at	blocked control port (dead headed)
Adjustment - No. of CW Turns from Min. to Max. setting	5
Valve Hex Size	1 5/8 in.
Valve Installation Torque	350 - 375 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Model Weight	3.53 lb.
Seal kit - Cartridge	Buna: 990-024-007
Seal kit - Cartridge	Polyurethane: 990-024-002
Seal kit - Cartridge	Viton: 990-024-006

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

OPTION SELECTION EXAMPLE: PVJBLAN

CONTROL (L)		ADJUSTMENT RANGE (A)		SEAL MATERIAL		(N)	MATERIAL/COATING	
 L Standard Screw Adjustment C Tamper Resistant - Factory Set 		А	100 - 3000 psi (7 - 210 bar), 200 psi (14 bar) Standard Setting	N V	Buna-N Viton		/AP	Standard Material/Coating Stainless Steel, Passivated
K Handknob		В	50 - 1500 psi (3,5 - 105 bar), 200 psi (14 bar) Standard Setting				/LH	Mild Steel, Zinc-Nickel
		С	150 - 6000 psi (10,5 - 420 bar), 200 psi (14 bar) Standard Setting					
		D	25 - 800 psi (1,7 - 55 bar), 200 psi (14 bar) Standard Setting					
		Е	25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting					
		w	150 - 4500 psi (10,5 - 315 bar), 200					

TECHNICAL FEATURES

- 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.

psi (14 bar) Standard Setting

- 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

