

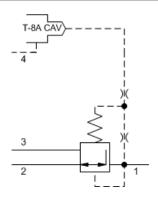
Pilot operated, pressure reducing/relieving main stage with integral T-8A control cavity and drain to port 4

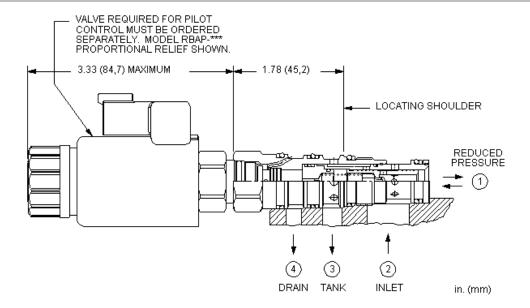
Capacity: 10 gpm (40 L/min.) Model:

PVDA8

## Product Description

This valve is a 3-way, normally open modulating element, externally drained, that incorporates an integral pilot control cavity. The pilot control cavity will accept any T-8A pressure control cartridge. The valve reduces a high primary pressure at the inlet (port 2) to a constant reduced pressure at port 1, with a full flow relief function from port 1 to tank (port 3). The pilot cartridge's setting determines the difference in pressure between reduced pressure (port 1) and the drain (port 4).





## Technical Features

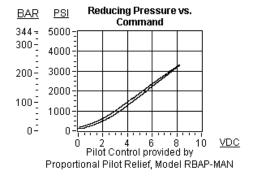
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- Pilot operated valves exhibit very low dead-band transition between reducing and relieving modes.
- Pressure at port 4 should not exceed 5000 psi (350 bar).
- Pilot operated valves exhibit exceptionally flat pressure/flow characteristics, are very stable and have low hysteresis.

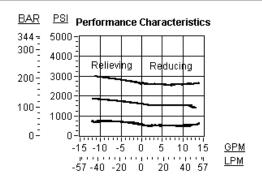
- Maximum inlet pressure is determined by the bias spring. The D spring is tested with 2000 psi (140 bar) maximum differential pressure and the W spring is tested with 5000 psi (350 bar) maximum inlet pressure
- NOTE: With the -8 control option, the main stage valve should first be installed to the correct torque value. The T-8A pilot control valve should then be installed into the main stage valve to its required torque value.
- The -8 control option allows the pilot control valve to be incorporated directly into the end of the relief cartridge via the T-8A cavity. These pilot control cartridges are sold separately and include electroproportional, solenoid, air pilot, and hydraulic pilot operation. See Pilot Control 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.

- Pressure on the drain (port 4) 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.

	U.S. Units	Metric Units
Cavity	T-21A	
Capacity	10 gpm	40 L/min.
Control Pilot Flow	7 - 10 in <sup>3</sup> /min.	0,11 - 0,16 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Pilot Control Cavity	T-8A	
Series (from Cavity)	Series 1	
Valve Hex Size	7/8 in.	22,2 mm
Valve Installation Torque	30 - 35 lbf ft	40 - 50 Nm
Seal Kits - Cartridge	Buna: 990-021-007	
Seal Kits - Cartridge	Viton: 990-021-006	
Model Weight	0.29 lb.	0.13 kg.





## PVDA-8WN

Minimum Control Pressure Seal Material

Standard Options Standard Options

25 psi (1,7 bar) Ν Buna-N 100 psi (7 bar) Viton

Related Models PVDA