

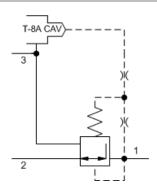
Pilot operated, pressure reducing/relieving main stage with integral T-8A control cavity

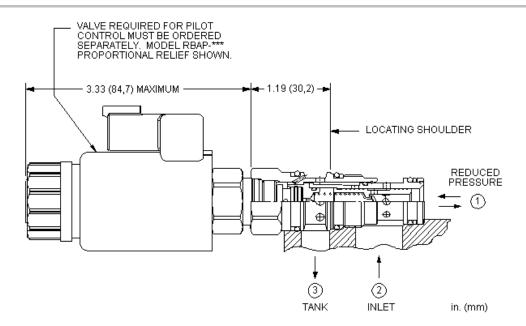
Capacity: 10 gpm (40 L/min.) Model:

PPDB8

Product Description

This valve is a 3-way, normally open modulating element 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)





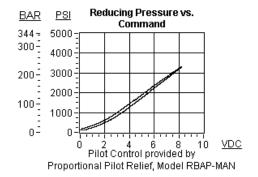
Technical Features

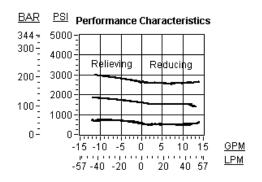
- and should not exceed 3000 psi (210 bar).
- Maximum inlet pressure is determined by the bias spring. The D spring Pilot operated valves exhibit very low dead-band transition between is tested with 2000 psi (140 bar) maximum differential pressure and the W spring is tested with 5000 psi (350 bar) maximum inlet
- 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
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio
 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.
 - reducing and relieving modes.
 - Pilot operated valves exhibit exceptionally flat pressure/flow characteristics, are very stable and have low hysteresis.
 - 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.

Control Cartridges.

All three-port pressure reducing and reducing/relieving cartridges are
physically interchangeable (i.e. same flow path, same cavity for a
given frame size). When considering mounting configurations, it is
sometimes recommended that a full capacity return line (port 3) be
used with reducing/relieving cartridges.

Fechnical Data		
	U.S. Units	Metric Units
Cavity	T-11A	
Capacity	10 gpm	40 L/min.
Control Pilot Flow	7 - 10 in³/min.	0,11 - 0,16 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Pilot Control Cavity	T-8A	
Pilot Control Valve Hex Size	7/8 in.	22,2 mm
Pilot Control Valve Installation Torque	20 - 25 lbf ft	27 - 33 Nm
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: 990-011-007	
Seal Kits - Cartridge	Viton: 990-011-006	
Model Weight	0.21 lb.	0.10 kg.





PPDB-8WN

Minimum Control Pressure Seal Material

Standard Options Standard Options

D 25 psi (1,7 bar) N Buna-N W 100 psi (7 bar) V Viton