

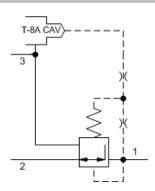
Pilot operated, pressure reducing/relieving main stage with integral T-8A control cavity

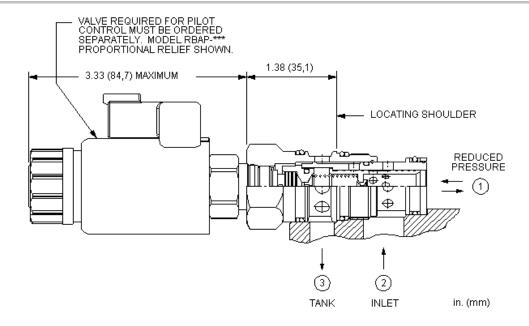
Capacity: 20 gpm (80 L/min.)

> Model: PPFB8

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) and the tank (port 3).





Technical Features

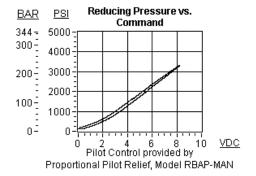
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 3000 psi (210 bar).
- Maximum inlet pressure is determined by the bias spring. The D spring is tested with 2000 psi (140 bar) maximum 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

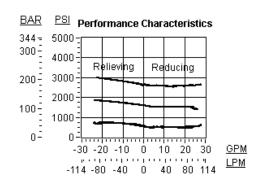
- Pilot operated valves exhibit very low dead-band transition between reducing and relieving modes.
- Pilot operated valves exhibit exceptionally flat pressure/flow characteristics, are very stable and have low hysteresis.
- All three-port pressure reducing and reducing/relieving cartridges are
 physically 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.
- 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.
- Incorporates the Sun floating style construction to minimize the

directly into the end of the relief cartridge via the T-8A cavity. These pilot control cartridges are sold separately and include electro-proportional, solenoid, air pilot, and hydraulic pilot operation. See Pilot Control Cartridges.

possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

U.S. Units	Metric Units
T-2A	
20 gpm	80 L/min.
10 - 15 in³/min.	0,16 - 0,25 L/min.
5000 psi	350 bar
T-8A	
7/8 in.	22,2 mm
20 - 25 lbf ft	27 - 33 Nm
Series 2	
1 1/8 in.	28,6 mm
45 - 50 lbf ft	60 - 70 Nm
Buna: 990-202-007	
Viton: 990-202-006	
0.41 lb.	0.19 kg.
	T 20 gpm 10 - 15 in³/min. 5000 psi T 7/8 in. 20 - 25 lbf ft Ser 1 1/8 in. 45 - 50 lbf ft Buna: 99 Viton: 99





PPFB-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

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