

2-way, pilot operated, directional valve with internal drain to port 3 - normally closed

Capacity: 7 gpm (28 L/min.)

Model:

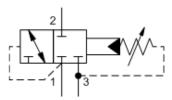
DPBB

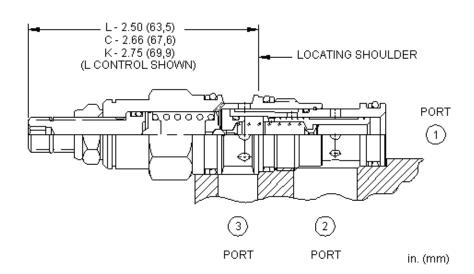
Functional Group:

Products: Cartridges: Directional; DP**, DR**, DV**: 2 Way - 3 Port - Normally Closed: Pilot Operated

Product Description

Normally closed, pilot-operated, 2-way directional cartridges are switching devices typically used in moderate flow circuits. They can be used by themselves or to actuate larger pilot-operated directional cartridges or logic cartridges. The valve shifts when the pressure differential between port 1 and port 3 exceeds the setting.



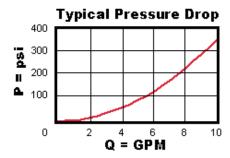


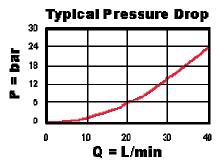
Technical Features

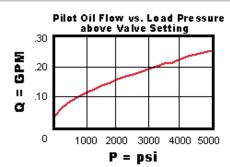
- Pressure at port 3 is directly additive to the setting of the valve.
 Because of this, port 3 may not be useable as a work port in your circuit. If this is a consideration, the 4 port version of this valve may be a solution.
- Direct-acting and pilot-operated versions of these valves are interchangeable. They fit the same cavities and have the same flow paths.
- This valve is not bistable; it is capable of modulating between the two positions shown.
- When pilot pressure exceeds the valve setting, pilot flow may be a consideration. See performance curves for pilot consumption vs. load pressure above the valve setting. If this is a problem, the direct acting version of this valve would be a solution.
- 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.

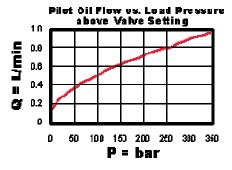
Technical Data

	U.S. Units	Metric Units	
Cavity	T-11A		
Capacity	7 gpm	28 L/min.	
Control Pilot Flow	7 - 10 in³/min.	0,11 - 0,16 L/min.	
Factory Pressure Settings Established at	4 gpm	15 L/min.	
Maximum Operating Pressure	5000 psi	350 bar	
Maximum Valve Leakage at 110 SUS (24 cSt)	1 in³/min.@1000 psi	15 cc/min.@70 bar	
Series (from Cavity)	Series 1		
Adjustment - Number of Clockwise Turns to Increase Setting	5		
Valve Hex Size	7/8 in.	22,2 mm	
Valve Installation Torque	30 - 35 lbf ft	40 - 50 Nm	
Adjustment Screw Internal Hex Size	5/32 in.	4 mm	
Adjustment Locknut/Cap Hex Size	9/16 in.	15 mm	
Adjustment Nut Torque	80 - 90 lbf in.	9 - 10 Nm	
Seal Kits - Cartridge	Buna: 990-011-007		
Seal Kits - Cartridge	Viton: 990-011-006		
Model Weight	0.33 lb.	0.15 kg.	









DPBB-LAN

Control	Adjustment Range		Seal Material	Material/Coating Modifier
Standard Options	Standard Options	Stan	dard Options	Preferred Options
C* Tamper Resistant - Factory Set	A 100 - 3000 psi (7 - 210 bar),	N	Buna-N	No modifier (standard materia
	1000 psi (70 bar) Standard	V	V Viton	with no special coating)
K Handknob	Setting	•		Special Options
	 B 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting D 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting 			
L Standard Screw Adjustment				/AP Stainless Steel, Passivated
				Control:
				Control:
				Our corrosion resistant produ

ol: C

ol: L

Our corrosion resistant product line is growing! If you are interested in a corrosion resistant option for this model, please contact Sun.

Additional Options

Control Adjustment Range

Setting

E 25 - 400 psi (1,7 - 28 bar),

W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting

200 psi (14 bar) Standard

Handknob with Panel Mount

C 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting

K 75 - 1500 psi (5 - 105 bar), 1000 psi (70 bar) Standard Setting

When the modifier is /AP, the control must be C or L

* Special Setting required, specify at time of order Customer specified setting stamped on hex.

Seal Material