

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

Capacity: 15 gpm (60 L/min.)

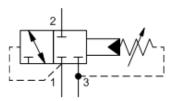
Model: **DPCB**

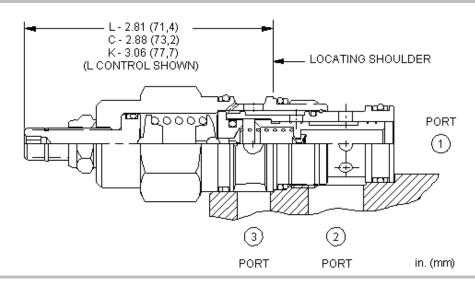
Functional Group:

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.

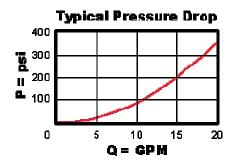


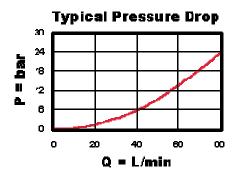


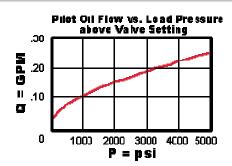
Technical Features

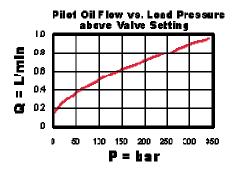
- Pressure at port 3 is directly additive to the setting of the valve.
 Because of this, port 3 may not be useable as a work port in your circuit. If this is a consideration, the 4 port version of this valve may be a solution.
- Direct-acting and pilot-operated versions of these valves are interchangeable. 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.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
 This is due to fatigue strength limits not hydraulic operating limits.
- 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.

Fechnical Data			
	U.S. Units	Metric Units	
Cavity	T-2A		
Capacity	15 gpm	60 L/min.	
Control Pilot Flow	10 - 15 in³/min.	0,16 - 0,25 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 in ³ /min.@1000 psi	15 cc/min.@70 bar	
Series (from Cavity)	Series 2		
Adjustment - Number of Clockwise Turns to Increase Setting	5	5	
Valve Hex Size	1 1/8 in.	28,6 mm	
Valve Installation Torque	45 - 50 lbf ft	60 - 70 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: 990-202-007		
Seal Kits - Cartridge	Viton: 990-202-006		
Model Weight	0.60 lb.	0.27 kg.	









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

Additional Options

Adjustment Range Control

Setting

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

O Handknob with Panel Mount

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

H 30 - 3000 psi (2 - 210 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

Our corrosion resistant product

resistant option for this model,

line is growing! If you are

interested in a corrosion

please contact Sun.