

3-way, pilot operated, directional valve with internal drain to port 3 (1 blocked, 2 to 3 open)

Capacity: 7 gpm (28 L/min.)

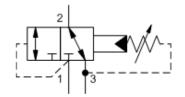
Functional Group:

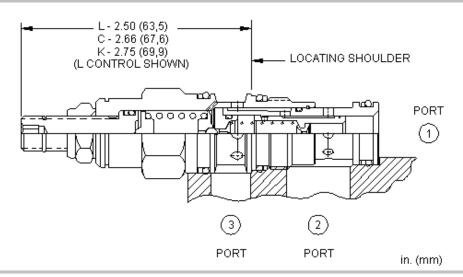
Products : Cartridges : Directional; DP**, DR**, DV** : 3 Way - 3 Port - 1 Blocked, 2 to 3 Open : Pilot Operated

Model:

Product Description

Pilot-operated, 3-way directional cartridges (1 blocked, 2 to 3 open) 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.





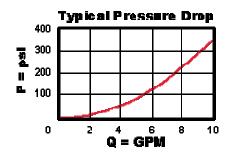
Technical Features

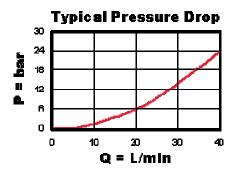
- Pressure at port 3 is directly additive to the setting of the valve.
 Because of this, port 3 may not be useable as a work port in your circuit. If this is a consideration, the 4 port version of this valve may be a solution.
- Direct-acting and pilot-operated versions of these valves are interchangeable. They fit the same cavities and have the same flow paths.
- Port 3 can be blocked to prevent the valve from shifting.

- 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 in ³ /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.	





Setting

Setting

Setting

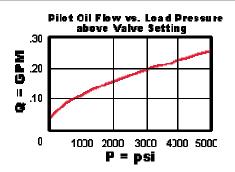
D 25 - 800 psi (1,7 - 55 bar),

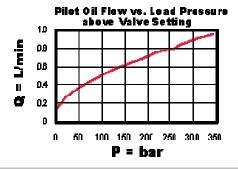
E 25 - 400 psi (1,7 - 28 bar),

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

200 psi (14 bar) Standard

400 psi (28 bar) Standard





DPBC-LAN

	Control		Adjustment Range		Seal Material	Material/Coating Modifier
St	andard Options	St	andard Options	Stand	dard Options	Preferred Options
C,	* Tamper Resistant - Factory Set	A	A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting	N	V Viton with no special c	No modifier (standard material with no special coating)
K	Handknob			٧		Special Options
L	Standard Screw Adjustment	В	50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard			/AP Stainless Steel, Passivated

Additional Options

Control

O Handknob with Panel Mount

Adjustment Range

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

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

please contact Sun.

Our corrosion resistant product

line is growing! If you are

interested in a corrosion resistant option for this model,

Control: C

Control: L