

3-way, direct-acting, directional valve with drain to port 4 (1 blocked, 2 to 3 open)

Capacity: 7 gpm (28 L/min.)

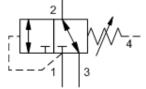
Functional Group:

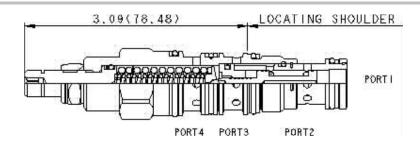
Products: Cartridges: Directional; DP**, DR**, DV**: 3 Way - 4 Port - 1 Blocked, 2 to 3 Open: Direct Acting

Model:

Product Description

Direct-acting, 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 4 exceeds the setting.





Technical Features

Technical Data

Seal Kits - Cartridge

Model Weight

- Port 3 can be used as a work port.
- The flow path between port 2 and port 3 is bidirectional.
- Because of their direct-acting design, these cartridges feature low internal leakage and low pilot flow consumption.
- Direct-acting and pilot-operated versions of these valves are interchangeable. They fit the same cavities and have the same flow naths.
- Pressure at port 4 is directly additive to the setting of the valve.

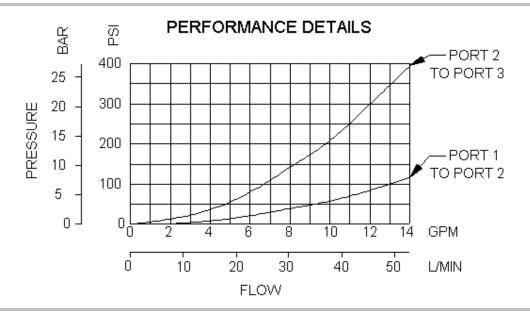
- This valve is not bistable; it is capable of modulating between the two positions shown.
- The flow path between port 1 and port 2 is bidirectional.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
 This is due to fatigue strength limits not hydraulic operating limits.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

Viton: 990-021-006

0.18 kg.

0.40 lb.

	U.S. Units	Metric Units
Cavity	T-21A	
Capacity	7 gpm	28 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)	2 in³/min.	30 cc/min.
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: 990-021-007	



DRBO-LAN

Control

Standard Options

- C* Tamper Resistant Factory
- **K** Handknob
- L Standard Screw Adjustment
- O Handknob with Panel Mount

Adjustment Range

Standard Options

- **A** 500 3000 psi (35 210 bar), 1000 psi (70 bar) Standard Setting
- **B** 50 1500 psi (3,5 105 bar), 200 psi (14 bar) Standard Setting
- D 25 800 psi (1,7 55 bar), 200 psi (14 bar) Standard Setting
- **E** 25 400 psi (1,7 28 bar), 200 psi (14 bar) Standard Setting
- **S** 25 200 psi (1,7 14 bar), 200 psi (14 bar) Standard Setting
- **W** 750 4500 psi (50 315 bar), 1000 psi (70 bar) Standard Setting

Seal Material

Standard Options

- N Buna-N
- **V** Viton

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