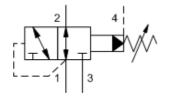
MODEL

3-way, pilot-operated, directional valve with drain to port 4 (1 to 2 open, 3 blocked) SERIES 1 / CAPACITY: 28 L/min. / CAVITY: T-21A



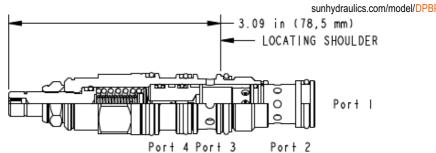


CONFIGURATION

(none) Material/Coating

L	Control	Standard Screw Adjustment
w	Adjustment Range	150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting
N	Seal Material	Buna-N

Standard Material/Coating



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

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-21A	
Series	1	
Capacity	28 L/min.	
Factory Pressure Settings Established at	15 L/min.	
Maximum Operating Pressure	350 bar	
Control Pilot Flow	0,11 - 0,16 L/min.	
Maximum Valve Leakage at 110 SUS (24 cSt)	15 cc/min.@70 bar	
Adjustment - No. of CW Turns from Min. to Max. setting	5	
Valve Hex Size	22,2 mm	
Valve Installation Torque	41 - 47 Nm	
Adjustment Screw Internal Hex Size	4 mm	
Locknut Hex Size	15 mm	
Locknut Torque	9 - 10 Nm	
Seal kit - Cartridge	Buna: 990021007	
Seal kit - Cartridge	EPDM: 990021014	
Seal kit - Cartridge	Polyurethane: 990021002	
Seal kit - Cartridge	Viton: 990021006	
Model Weight	0.19 kg.	

CONFIGURATION OPTIONS

Model Code Example: DPBPLWN

CONTROL	(L) ADJUSTMENT RANGE	<u>W)</u> <u>SEAL MATERIAL</u> (N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob 	 W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting 	E EPDM	Standard Material/Coating /LH Mild Steel, Zinc-Nickel
	B 50 - 1500 psi (3,5 - 105 bar), 1000 p (70 bar) Standard Setting	i	
	D 25 - 800 psi (1,7 - 55 bar), 400 psi (2 bar) Standard Setting	}	
	E 25 - 400 psi (1,7 - 28 bar), 200 psi (1 bar) Standard Setting	l	

J 25 - 1500 psi (1,7 - 105 bar), 1000 psi (70 bar) Standard Setting

Valve In Adjustm

TECHNICAL FEATURES

- Port 4 can be blocked to prevent the valve from shifting.
- Port 3 can be used as a work port.
- Direct-acting and pilot-operated versions of these valves are interchangeable. They fit the same cavities and have the same flow paths.
- 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.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar). This is due to fatigue strength limits not hydraulic operating limits.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- 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.

PERFORMANCE CURVES

