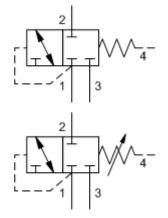
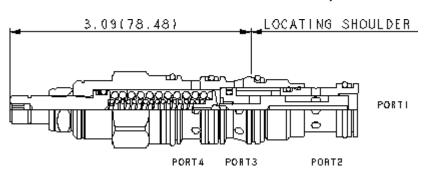
3-way, direct-acting, directional valve with drain to port 4 - normally closed CAPACITY: 7 gpm / CAVITY: T-21A



sunhydraulics.com/model/DRBN





Normally closed, direct-acting, 3-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 4 exceeds the setting.

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

ity T-21A			
Series	1		
Capacity	7 gpm		
Maximum Operating Pressure	5000 psi		
Factory Pressure Settings Established at	4 gpm		
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in³/min.		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Valve Hex Size	7/8 in.		
Valve Installation Torque	30 - 35 lbf ft		
Adjustment Screw Internal Hex Size	5/32 in.		
Locknut Hex Size	9/16 in.		
Locknut Torque	80 - 90 lbf in.		
Model Weight	0.41 lb.		
Seal kit - Cartridge	Buna: 990-021-007		
Seal kit - Cartridge	Polyurethane: 990-021-002		
Seal kit - Cartridge	Viton: 990-021-006		

NOTES: • For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

OPTION SELECTION EXAMPLE: DRBNLAN

CONTROL (L)		ADJUSTMENT RANGE (A)	SEAL MATERIAL	(N)	MATERIAL/COATING	
L Standard Screw Adjustment		A 500 - 3000 psi (35 - 210 bar), 1000	N Buna-N			Standard Material/Coating
C Tamper Resistant - Factory Set		psi (70 bar) Standard Setting	V Viton		/AP	Stainless Steel, Passivated
K Handknob		 B 50 - 1500 psi (3,5 - 105 bar), 200 psi (14 bar) Standard Setting 			/LH	Mild Steel, Zinc-Nickel
		 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 				
		W 750 - 4500 psi (50 - 315 bar), 1000				

TECHNICAL FEATURES

- 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.

psi (70 bar) Standard Setting

- 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.
- 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

