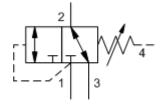
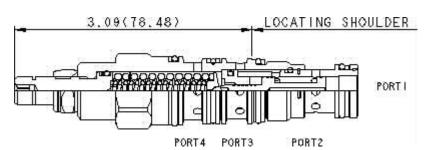


3-way, direct-acting, directional valve with drain to port 4 (1 blocked, 2 to 3 open) CAPACITY: 7 gpm / CAVITY: T-21A



sunhydraulics.com/model/DRBO





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

Cavity	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 in ³ /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	.55 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: DRBOLANV

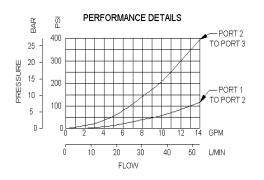
CONTROL	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)	MATE	RIAL/COATING
L Standard Screw Adjustment		A 500 - 3000 psi (35 - 210 bar), 100	0	N Buna-N			Standard Material/Coating
C Tamper Resistant - Factory Set		psi (70 bar) Standard Setting	psi (70 bar) Standard Setting	V Viton		/AP	Stainless Steel, Passivated
		B 50 - 1500 psi (3,5 - 105 bar), 200 psi (14 bar) Standard Setting					
		D 25 - 800 psi (1,7 - 55 bar), 200 ps (14 bar) Standard Setting	i				
		E 25 - 400 psi (1,7 - 28 bar), 200 ps (14 bar) Standard Setting	i				

 W 750 - 4500 psi (50 - 315 bar), 1000 psi (70 bar) Standard Setting

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.
- 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.
- 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.

PERFORMANCE CURVES



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