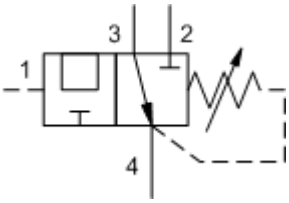
MODEL

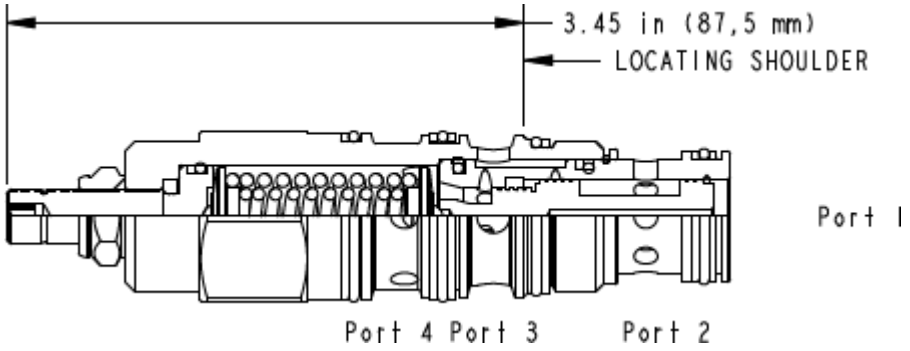
DRCR

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

CAPACITY: 15 gpm / CAVITY: T-22A

sunhydraulics.com/model/DRCR





Direct-acting, 3-way directional cartridges (3 to 4 open, 2 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-22A
Series	2
Capacity	15 gpm
Maximum Operating Pressure	5000 psi
Maximum Valve Leakage at 110 SUS (24 cSt)	3 in^3/min.@3000 psi
Adjustment - No. of CW Turns from Min. to Max. setting	5
Valve Hex Size	1 1/8 in.
Valve Installation Torque	45 - 50 lbf ft
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Model Weight	0.72 lb.
Seal kit - Cartridge	Buna: 990-022-007
Seal kit - Cartridge	Polyurethane: 990-022-002
Seal kit - Cartridge	Viton: 990-022-006

OPTION SELECTION EXAMPLE: DRCRLNV

CONTROL	(L)	SEAL MATERIAL	(N)	MATERIAL/COATING	
L	Standard Screw Adjustment	**N**	Buna-N		Standard Material/Coating
C	Concealed Manual Override	**V**	Viton	**/LH**	Mild Steel, Zinc-Nickel

TECHNICAL FEATURES

- Note: 800 psi (55 bar) is the highest setting possible with this valve.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar). This is due to fatigue strength limits not hydraulic operating limits.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- 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.
- This valve is not bistable; it is capable of modulating between the two positions shown.
- 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