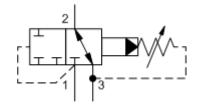
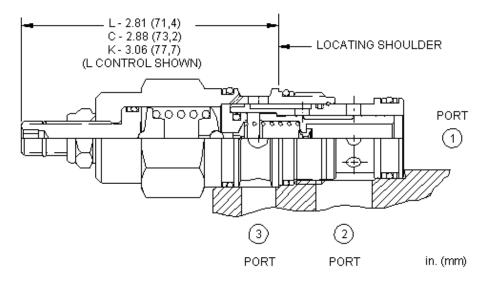




sunhydraulics.com/model/DPCA





Normally open, pilot-operated, 2-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 3 exceeds the setting.

Cavity	T-2A
Series	2
Capacity	15 gpm
Maximum Operating Pressure	5000 psi
Control Pilot Flow	10 - 15 in³/min.
Factory Pressure Settings Established at	4 gpm
Maximum Valve Leakage at 110 SUS (24 cSt)	1 in ³ /min.@1000 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
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Model Weight	.60 lb
Seal kit - Cartridge	Buna: 990-202-007
Seal kit - Cartridge	Polyurethane: 990-002-002
Seal kit - Cartridge	Viton: 990-202-006

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

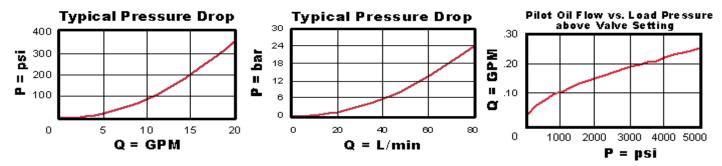
NOTES: • For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

OPTION SELECTION EXAMPLE: DPCALANV

CONTROL	(L)	ADJUSTMENT RANGE	(A)	SE/	AL MATERIAL	(N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set 		A 100 - 3000 psi (7 - 210 bar), psi (70 bar) Standard Setting		N V	Buna-N Viton		Standard Material/Coating
		 B 50 - 1500 psi (3,5 - 105 bar), psi (70 bar) Standard Setting 					
		C 150 - 6000 psi (10,5 - 420 ba 3000 psi (210 bar) Standard					
		 D 25 - 800 psi (1,7 - 55 bar), 40 (28 bar) Standard Setting)0 psi				
		E 25 - 400 psi (1,7 - 28 bar), 20 (14 bar) Standard Setting)0 psi				
		W 100 - 4500 psi (7 - 315 bar), psi (70 bar) Standard Setting					

TECHNICAL FEATURES

- Pressure at port 3 is directly additive to the setting of the valve. Because of this, port 3 may not be useable as a work port in your circuit. If this is a consideration, the 4 port version of this valve may be a solution.
- Direct-acting and pilot-operated versions of these valves are interchangeable. They fit the same cavities and have the same flow paths.
- 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.
- 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

