



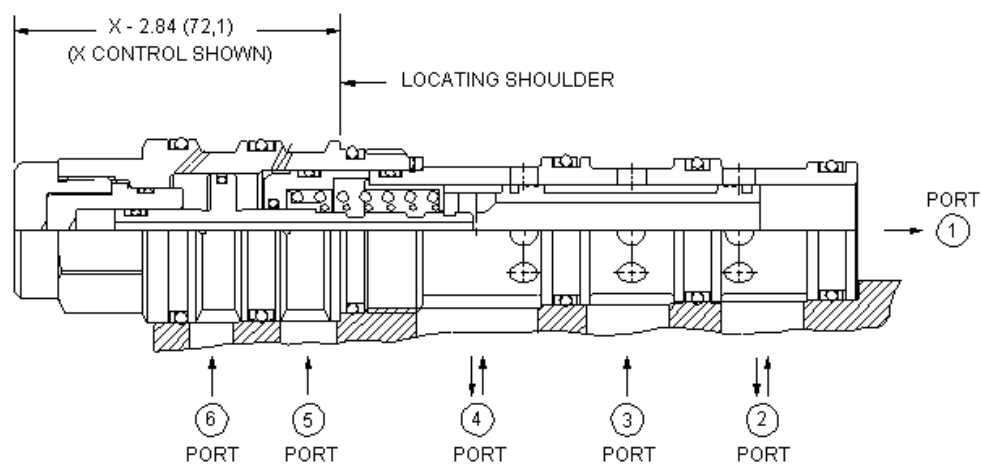
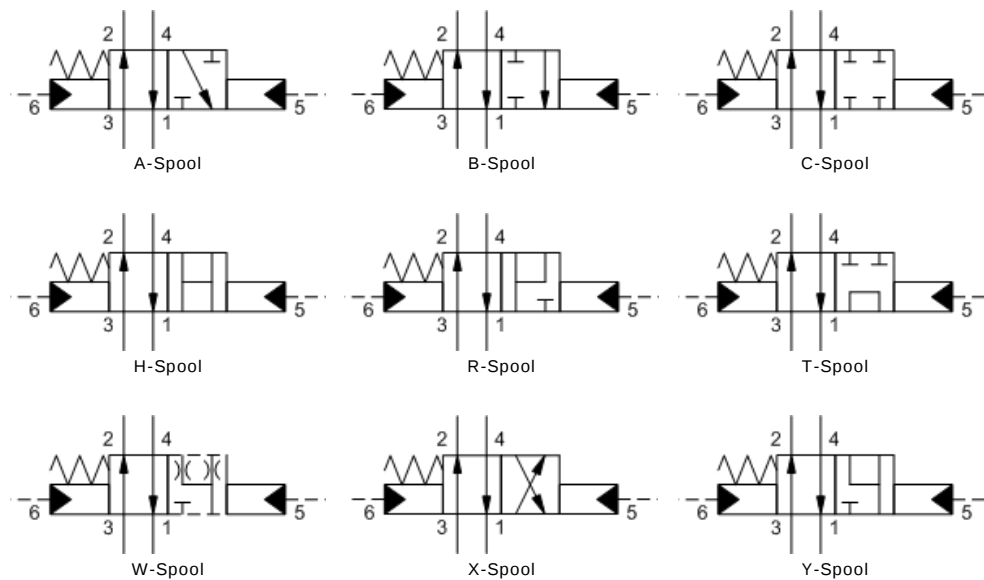
4-way, 2-position, pilot-to-shift directional valve

Capacity:
25 - 100 gpm (95 - 380 L/min.)

Model:
DCEF

Product Description

Two-position, 4-way directional cartridges are spring-offset, 6-port directional valves that can be configured from a choice of 9 different spool options. The supply port is port 3 and all ports will accept 5000 psi (350 bar). Capacity for these pilot-to-shift valves is dependent on the spool type specified.



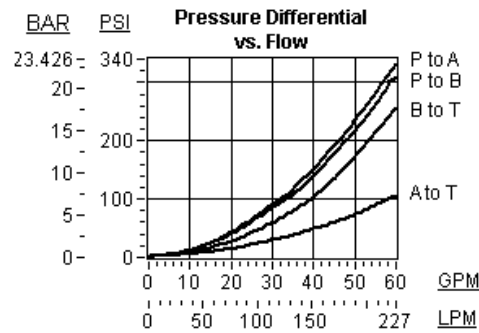
in. (mm)

Technical Features

- All ports will accept 5000 psi (350 bar), including the x and y pilot ports (port 5 and port 6).
- The reason for the different capacities, or performance limits, for the different spool configurations are flow forces. Flow forces are proportional to flow and pressure drop. Typically, they resist the opening of a passage. Spool configurations that open passages as they spring center are the most susceptible. If the flow forces due to the flow and pressure conditions exceed the centering spring force the valve may not shift completely. Higher flows may be used at lower pressures.
- Leakage listed in technical data is for each path.
- The pilot ports, 5 and 6, are positively sealed from the work ports.
- Hardened spool and sleeve provide consistent and low spool leakage rates and excellent wear characteristics.
- 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.

Technical Data

	U.S. Units	Metric Units
Cavity	T-63A	
Capacity	25 - 100 gpm	95 - 380 L/min.
Minimum Pilot Pressure Required to Shift Valve	125 psi	9 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in ³ /min.@1000 psi	30 cc/min.@70 bar
Pilot Volume Displacement	.17 in ³	2,8 cc
Series (from Cavity)	Series 3	
Valve Hex Size	1 1/4 in.	31,8 mm
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm
Seal Kits - Cartridge	Buna: 990-063-007	
Seal Kits - Cartridge	Viton: 990-063-006	
Model Weight	1.89 lb.	0.86 kg.



DCEF-XXN

Control	Spool Configuration	Seal Material
Standard Options	Standard Options	Standard Options
X Standard Pilot	A A to T Center	N Buna-N
	B B to T Center	V Viton
	C Blocked Center	
	H Open Center	
	R Regen Center	
	T Tandem Center	
	W A and B Bleed to T Center	
	X P to B and A to T Center	
	Y A and B to T Center	