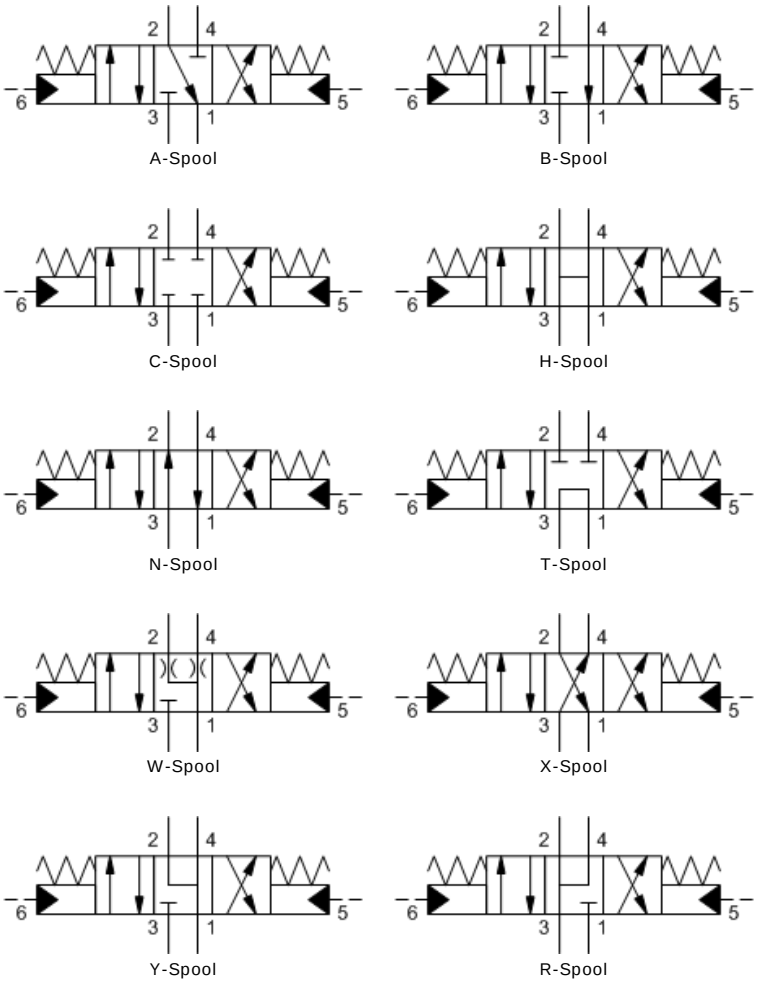
4-way, 3-position, pilot-to-shift directional valve

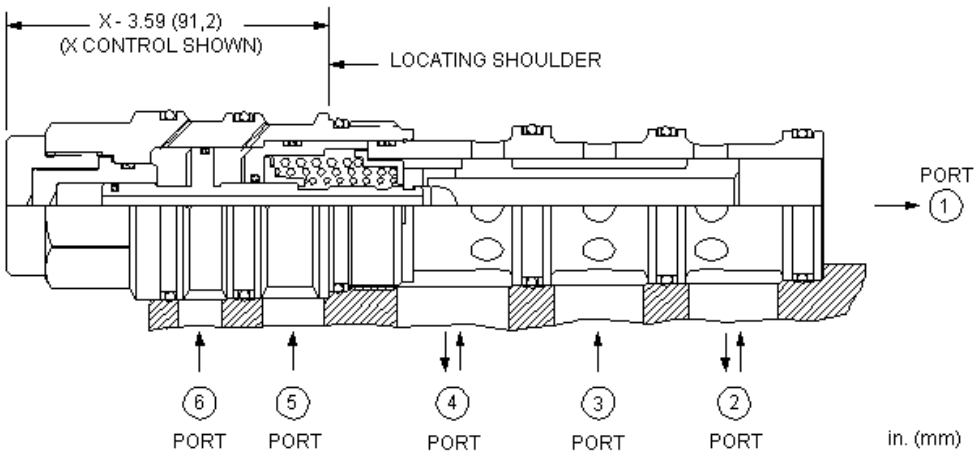
Capacity:
50 - 200 gpm (200 - 760 L/min.)

Model:
DCFC

Product Description

Three-position, 4-way directional cartridges are spring-centered, 6-port directional valves that can be configured from a choice of 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.



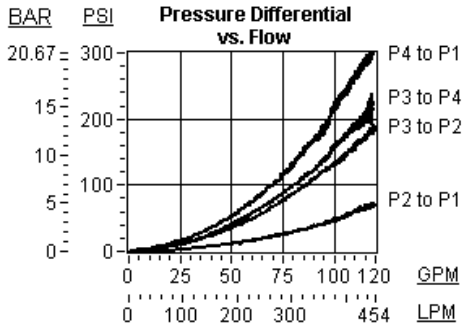


Technical Features

- 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-64A	
Capacity	50 - 200 gpm	200 - 760 L/min.
Minimum Pilot Pressure Required to Shift Valve	125 psi	9 bar
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in³/min.@1000 psi	30 cc/min.@70 bar
Pilot Volume Displacement	.42 in³	6,9 cc
Series (from Cavity)	Series 4	
Valve Hex Size	1 5/8 in.	41,3 mm
Valve Installation Torque	350 - 375 lbf ft	475 - 500 Nm
Seal Kits - Cartridge	Buna: 990-064-007	
Seal Kits - Cartridge	Viton: 990-064-006	
Model Weight	4.12 lb.	1.87 kg.



DCFC-XCN

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		
		N	P to A and B to T Center		
		R	Regen Center		
		T	Tandem Center		
		W	A and B Bleed to T Center		
		Y	A and B to T Center		

Additional Options

Control		Spool Configuration		Seal Material	
		X	P to B and A to T Center		

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