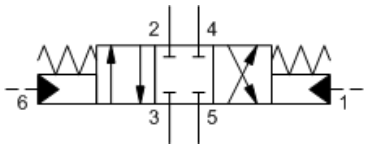
4-way, 3-position, pilot-to-shift directional valve

Capacity:
20 gpm (80 L/min.)

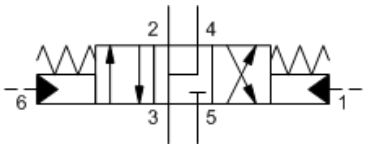
Model:
DDDC

Product Description

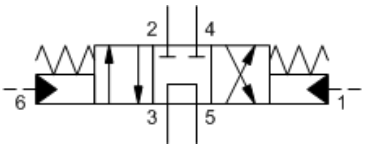
Three-position, 4-way directional cartridges are spring-centered, 6-port directional valves that can be configured from a choice of spool options. The supply port is port 3 and all ports will accept 5000 psi (350 bar). Capacity for these pilot-to-shift valves is dependent on the spool type specified.



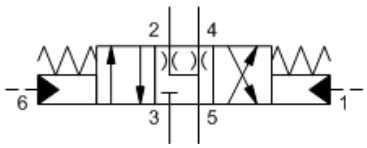
C-Spool



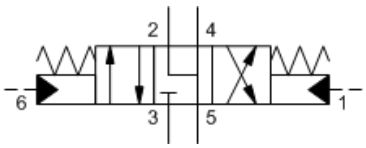
R-Spool



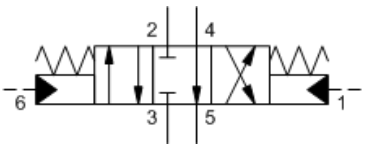
T-Spool



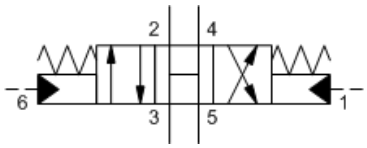
W-Spool



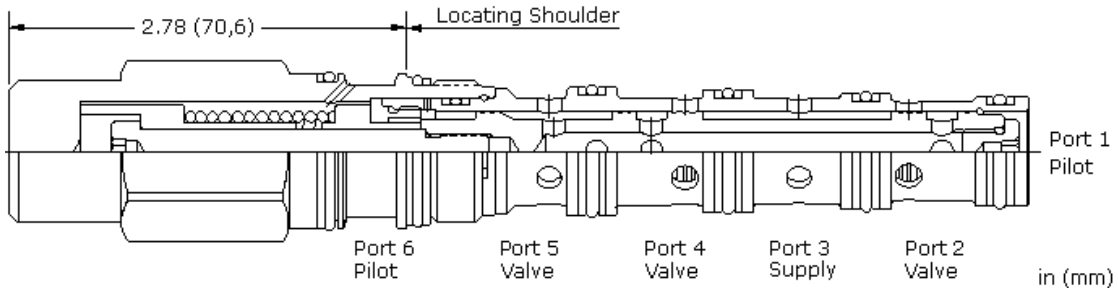
Y-Spool



B-Spool



H-Spool



Technical Features

- Leakage listed in technical data is for each path, including pilot paths.
- 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.
- 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-52A	
Capacity	20 gpm	80 L/min.
Minimum Pilot Pressure Required to Shift Valve	150 psi	10,5 bar
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in^3/min.@1000 psi	30 cc/min.@70 bar
Pilot Volume Displacement	.04 in^3	0,66 cc
Series (from Cavity)	Series 2	
Valve Hex Size	1 1/8 in.	28,6 mm
Valve Installation Torque	45 - 50 lbf ft	60 - 70 Nm
Model Weight	1.09 lb.	0.49 kg.

DDDC-XCN

Control

Standard Options

X	Not Adjustable

Spool Configuration

Standard Options

B	B to T Center
C	Blocked Center
H	Open Center
R	Regen Center
T	Tandem Center
W	A and B Bleed to T Center
Y	A and B to T Center

Seal Material

Standard Options

N	Buna-N
V	Viton

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