

Directional Control Valves

DV15-P5-24-FD

Directional Control Valve, 4-Way, Spool Type, Hydraulic Pilot, Internal Drain

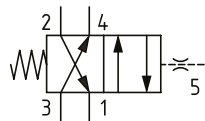
230 bar [3300 psi] • 70 l/min [18 US gpm]



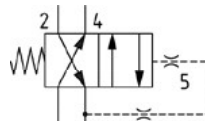
DESCRIPTION AND OPERATION

This is a 4-way, spool type, hydraulically piloted directional control valve with an internal drain. In the normal position, ports 3-4 and 1-2 are connected. In the crossover transition all ports are open. When shifted by pilot pressure at port 5, ports 3-2 and 1-4 are connected. This valve is primarily used for reversing fan drive circuits where the open-transition design is important for smooth shifting and minimal pressure spikes during reversing.

SCHEMATIC



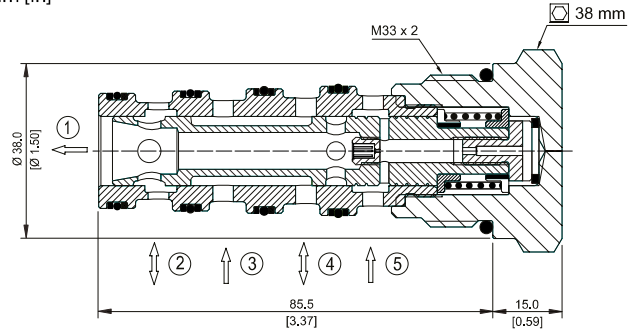
No spool orifice



0.5 mm spool orifice

DIMENSIONS

mm [in]

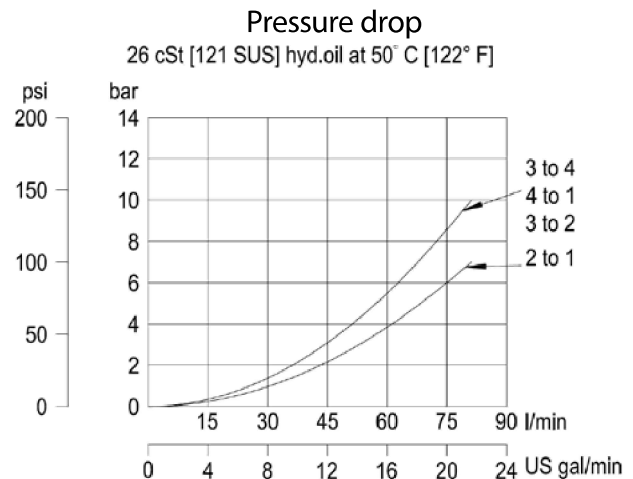


Installation torque
68-75 Nm [50-55 ft. lbs]

PERFORMANCE DATA

Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar [100 psi]	70 l/min [18 US gpm]
Maximum Flow	80 l/min [21 US gpm]
Minimum Pilot Pressure	2 bar [29 psi]
Weight	0.44 kg [0.95 lb]
Cavity	NCS12/5

PERFORMANCE CURVES



MODEL CODE

DV15 - P5 - 24 - FD - 0.5 - B - 2 - 12S

Spool Orifice Option

Code	Orifice/Plug for Pilot Drain
00	Plug
0.5	0.5 mm orifice

Seal Option

Code	Seal kit
B-Buna-N	11182670
V-Viton	11182671

Housing

Code	Ports & Material	Housing Model Code
00	No housing	
6B	3/4 BSP, AL [P5-3/8 BSP]	NCS 12/5-6B/3B
12S	#12 SAE, AL [P5-#6 SAE]	NCS 12/5-12S/6S

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].
* Additional housings available

Shift Pressure

Code	Bar	[Psi]
2	2	[29]