



Directional Control Valves Technical Information

4 Way, 2 Position Hydraulic Piloted DV15-P5-24-01

OPERATION

The DV15-P5-24-01 is a normally open, 5-ported piloted directional control valve, 2-position, 4-way, 15-size. It is shifted by applying pressure to port 5. In the normal position, flow is allowed between ports 3 and 4, and ports 2 to 1. During transition, all ports are closed. When the valve is fully shifted, flow is allowed between ports 2 and 3, and ports 4 to 1.



APPLICATIONS

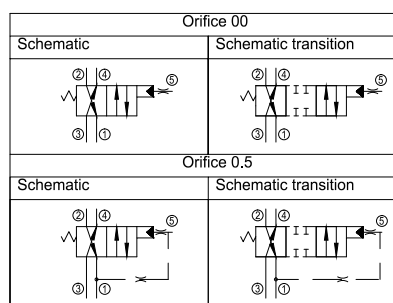
This spool-type valve is primarily used in mobile and industrial applications for controlling the direction of the flow in a circuit, like motors or cylinders. The valve can be piloted with many 2-way valves including solenoid, sequence, relief or manual valves with the internal pilot drain orifice option. Alternatively, it can also be piloted with a 2-position, 3-way solenoid valve using the internal pilot drain plug option.

SPECIFICATIONS

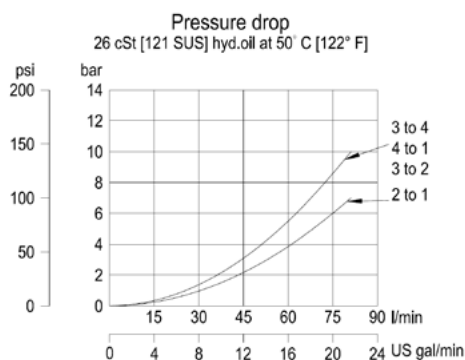
Rated Pressure*	230 bar [3335 psi]
Rated Flow at 7 bar [100 psi]	70 l/min [18.4 US gal/min]
Maximum Rated Flow	80 l/min [21.1 US gal/min]
Minimum pilot pressure	2 bar [29 psi]
Weight	0.44 kg [0.95 lbs]
Cavity	NCS12/5

* Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATICS



PERFORMANCE CURVE





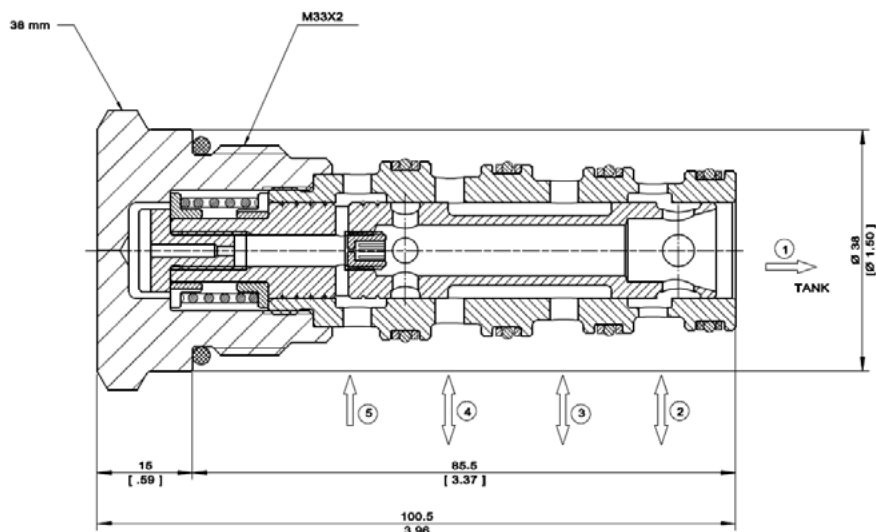
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DV15-P5-24-01

DIMENSIONS

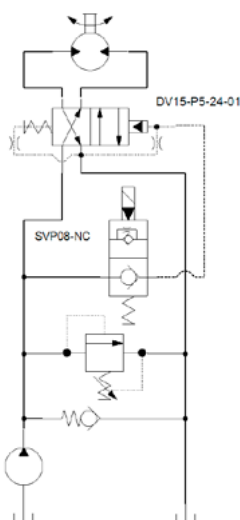
mm [in]



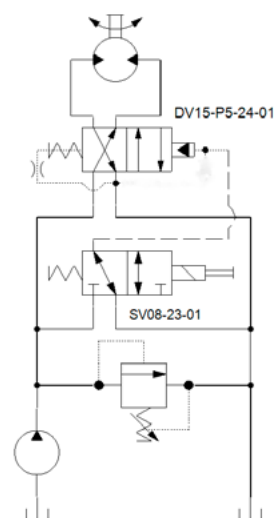
EXAMPLE CIRCUITS

Bi-directional Motor Control

Piloted with 2-way valve and internal pilot drain orifice option



Piloted with 3-way valve and internal pilot drain plug option



ORDERING INFORMATION

DV15 - P5 - 24 - 01 - 0.5 - B - 2 - 12S

DV15: Directional Control Valve, Hydraulically Piloted, 15 Size

P5: Piloted, Port 5

24: 2 Position, 4-way

01: Schematic: Normally Open

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

Housing & Ports	Housing P/N
6B: 3/4 BSP [P5 - 3/8 BSP]	NCS12/5 - 6B/3B
12S: #12 SAE [P5 - #6 SAE]	NCS12/5 - 12S/6S

Pilot Shift Pressure
2: 2 bar [29 psi]

Code	Seal Material
B	Buna
V	Viton