

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.



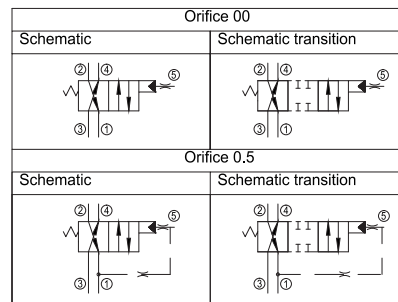
APPLICATIONS

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.

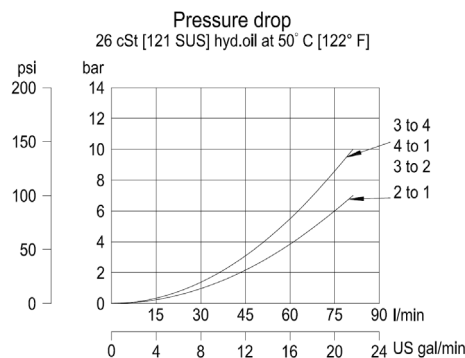
SPECIFICATIONS

| | |
|--------------------------------------|----------------------------|
| 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 |

SCHEMATICS

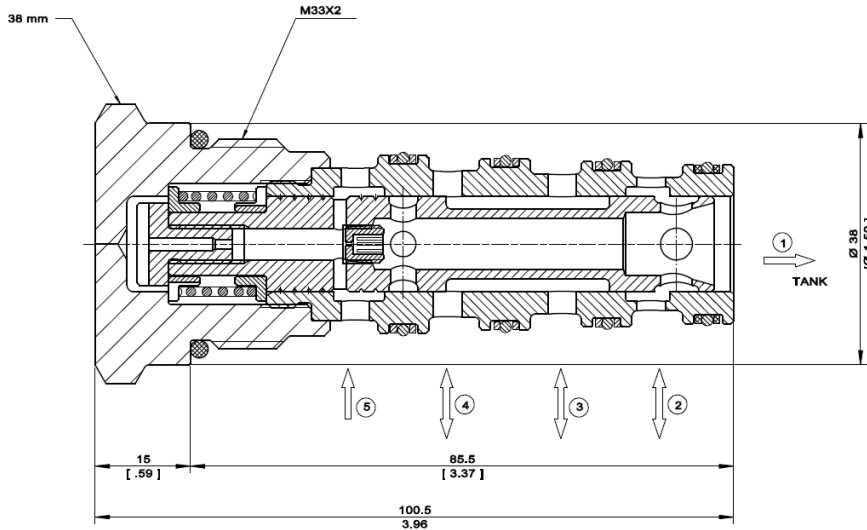


PERFORMANCE CURVE



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

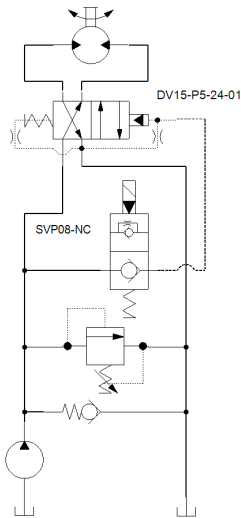
DIMENSIONS



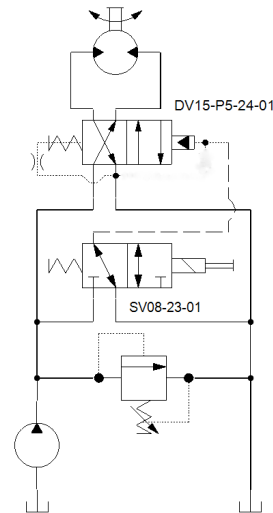
EXAMPLE CIRCUITS

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 |