

Directional Control Valves

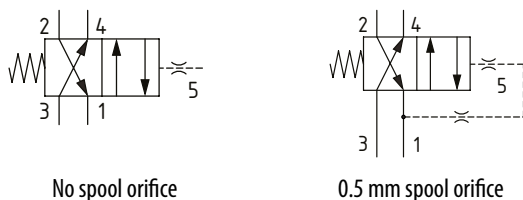
DV15-P5-24-FD

Directional Control Valve, 4-Way, Spool Type, Hydraulic Pilot, Internal Drain
230 bar [3300 psi] • 70 l/min [18 US gpm]

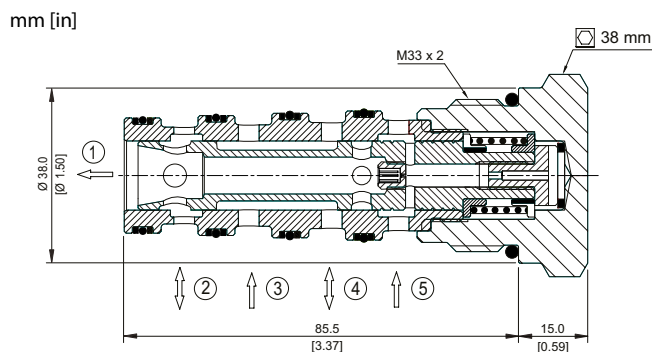
DESCRIPTION AND OPERATION

This is a 4-way, spool type, hydraulically piloted directional control valve with an internal drain. In the normal position, ports 3-2 and 1-4 are connected. In the crossover transition all ports are open. When shifted by pilot pressure at port 5, ports 3-4 and 1-2 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



DIMENSIONS

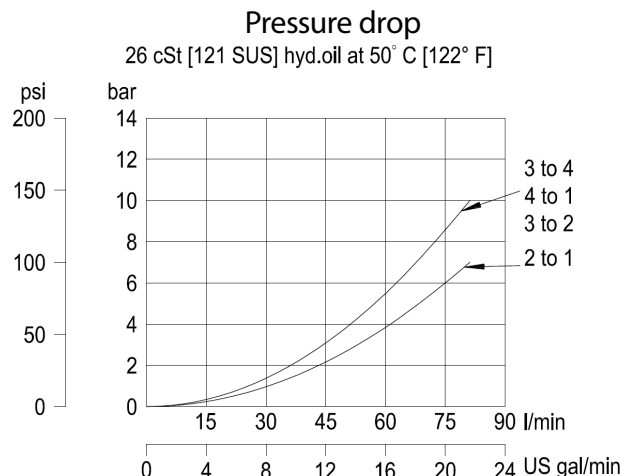


Installation torque
 68-75 Nm [50-55 ft. lbs.]

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] |