

Solenoid Valves

SV15-34-02

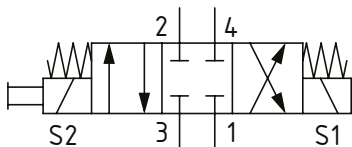
Solenoid Valve, 4-way, 3-position, Spool Type

230 bar [3300 psi] • 60 l/min [16 US gpm]

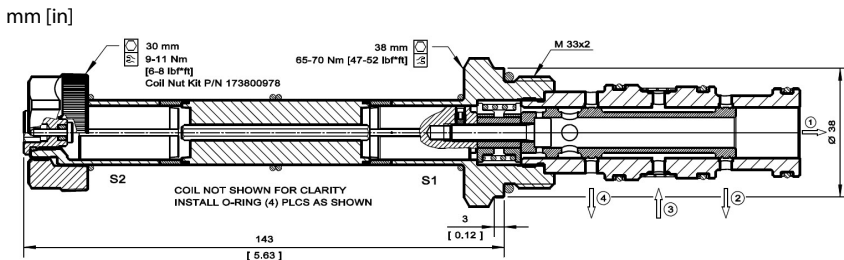
OPERATION AND DESCRIPTION

This is a 4-way, 3-position, spool type, direct acting solenoid valve. In the center condition, all ports are blocked. By energizing one coil, port 3 opens to 2 and port 4 to 1. When energizing the other coil, port 3 opens to 4 and port 2 to 1. This valve provides a directional control function with a neutral de-energized state (all ports blocked). It can be used in any hydraulic application where an actuator needs to be controlled in both directions. Always check the operating envelope to make sure the valve will work under the required application conditions. Port 1 is not intended for use as inlet (Tank only).

SCHEMATIC



DIMENSIONS



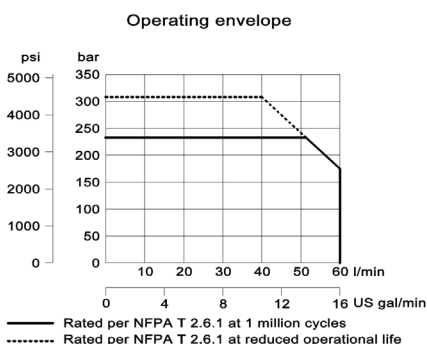
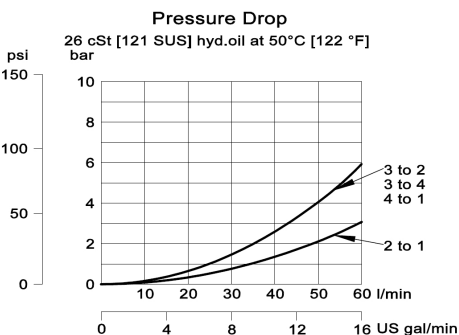
PERFORMANCE DATA

| | |
|------------------------|-----------------------------|
| Rated Pressure* | 230 bar [3300 psi]** |
| Flow Capability | 60 l/min [16 US gpm] |
| Coil Options | M19 |
| Weight | 1400 kg [3.09 lb] |
| Cavity | NCS 12/4 |

*Rated Pressure based on NFPA fatigue test standards (at 1 million cycles)

**Valve can operate with an inlet pressure of 315 bar [4600 psi] at port 3 for 300,000 cycles

PERFORMANCE CURVES



MODEL CODE

SV15 - 34 - 02 - 12D - DE - B - F - 8S

Coil Voltage

| Standard Coil Code | Robust Coil Code | Coil Voltage |
|--------------------|------------------|------------------------|
| 00 | R00 | No Coil, nut included* |
| 10D | R10D | 10 VDC |
| 12D | R12D | 12 VDC |
| 20D | R20D | 20 VDC |
| 24D | R24D | 24 VDC |
| 110A | | 110 VAC** |
| 220A | | 220 VAC** |

*Standard Coil - Plastic coil nut and o-rings (p/n 173800978)

**DIN only - external rectifier needed

Connector Type

| Code | Connector Type |
|------|-----------------------|
| 00 | No Coil |
| AJ | Amp Junior |
| AJD | Amp Junior with Diode |
| DE | Deutsch |
| DED | Deutsch with Diode |
| FL | Flying Leads |
| DN | DIN 43650 |

Housing

| Code | Ports & Material | Housing Model Code |
|------|------------------|--------------------|
| 00 | No Housing | |
| 8S | #8 SAE, AL | NCS12/4-L-8S |
| 12S | #12 SAE, AL | NCS12/4-L-12S |
| 4B | 1/2 BSP, AL | NCS12/4-L-1/2 |
| 6B | 3/4 BSP, AL | NCS12/4-L-3/4 |

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

* Additional housings available

Filter Option

Omit - No filter
F - Filter 300 µm

Seal Option

| Code | Seal kit |
|------------|----------|
| B-Buna - N | 11115884 |
| V-Viton | 11115885 |