

Solenoid Valves

SV10-23-01

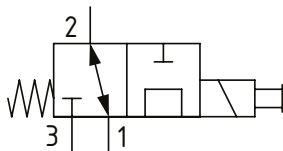
Solenoid Valve, 3-way, 2-position, Spool Type

230 bar [3300 psi] • 35 l/min [9 US gpm]

OPERATION AND DESCRIPTION

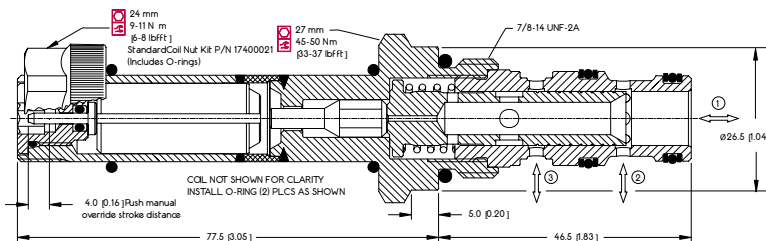
This is a 3-way, 2-position, spool type, direct acting solenoid valve. In the de-energized condition, port 1 is open to port 2 and port 3 is blocked. When energized, port 3 is open to port 1 and port 2 is blocked. These valves can be used in normally open, normally closed or selector modes. They come standard with a push pin manual override. Always check the operating envelope to make sure the valve will work under the required application conditions.

SCHEMATIC



DIMENSIONS

mm [in]



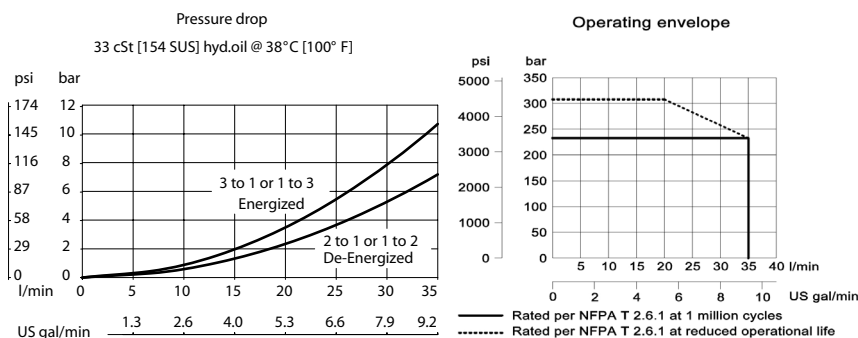
PERFORMANCE DATA

| | |
|-----------------|----------------------|
| Rated Pressure* | 230 bar [3300 psi]** |
| Flow Capability | 35 l/min [9 US gpm] |
| Coil Options | M16, R16 |
| Weight | 0.42 kg [0.93 lb] |
| Cavity | SDC10-3 |

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

**Valve can operate at 315 bar [4600 psi] for 400,000 cycles. With inlet at port 2, this can be increased to 600,000 cycles.

PERFORMANCE CURVES



MODEL CODE

SV10 - 23 - 01 - 12D - DE - PB - B - 6S

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 17400021)

**Robust Coil - Steel coil nut and no o-rings (p/n 173804910)

**DIN only - external rectifier needed

Connector Type

| Standard Coil Code | Robust Coil Code | Connector Type |
|--------------------|------------------|--------------------------|
| 00 | 00 | No Coil |
| AJ | | Amp Junior |
| AJD | | Amp Junior with Diode |
| AS | AS | AMP SuperSeal 1.5 |
| ASD | ASDB* | AMP SuperSeal with Diode |
| DE | DE | Deutsch |
| DED | DEDB* | Deutsch with Diode |
| FL | FL | Flying Leads |
| FLD | FLDB* | Flying Leads with Diode |
| DN | | DIN 43650 |

*Bi-directional diode

Housing

| Code | Ports | Housing Model Code |
|------|----------------|--------------------|
| 00 | No Housing | |
| 6S | #6 SAE, AL | CP10-3-6S |
| 8S | #8 SAE, AL | CP10-3-8S |
| S8S | #8 SAE, Steel | CP10-3-S8S |
| DG3B | 3/8 BSP, AL | SDC10-3-DG3B |
| DG4B | 1/2 BSP, AL | SDC10-3-DG4B |
| S4B | 1/2 BSP, Steel | CP10-3-S4B |

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

* Additional housings available

Seal Option

| Code | Seal kit |
|------------|-----------|
| B-Buna - N | 354004210 |
| V-Viton | 354003719 |

Manual Override

Omit-Push Pin
PB-Push Button
SPS-Screw Type
OPS-Protected Push Pin
PAT-Push and Twist