

# Solenoid Valves

## SV10-23-04

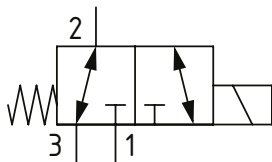
Solenoid Valve, 3-way, 2-position, Spool Type

230 bar [3300 psi] • 20 l/min [5.3 US gpm]

### OPERATION AND DESCRIPTION

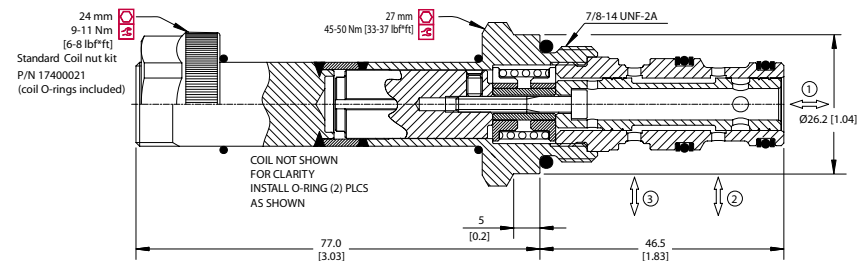
This is a 3-way, 2-position, spool type, direct acting solenoid valve. In the de-energized condition, port 3 is open to port 2 and port 1 is blocked. When energized, port 2 is open to port 1 and port 3 is blocked. These valves can be used in normally open, normally closed or selector modes. Always check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

### SCHEMATIC



### DIMENSIONS

mm [in]



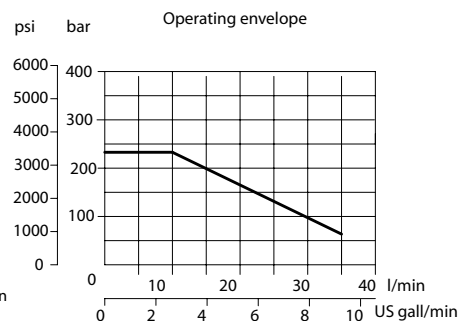
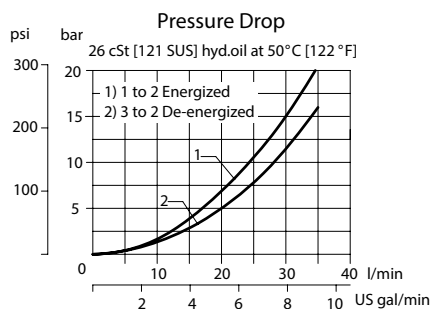
### PERFORMANCE DATA

|                        |                              |
|------------------------|------------------------------|
| <b>Rated Pressure*</b> | <b>230 bar [3300 psi]**</b>  |
| <b>Flow Capability</b> | <b>20 l/min [5.3 US gpm]</b> |
| <b>Coil Options</b>    | M16, R16                     |
| <b>Weight</b>          | 0.42 kg [0.93 lb]            |
| <b>Cavity</b>          | SDC10-3                      |

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

\*\*Valve can operate at 315 bar [4600 psi] on port 2 for 500,000 cycles

### PERFORMANCE CURVES



### MODEL CODE

## SV10 - 23 - 04 - 12D - DE - 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 173800588)

\*Robust Coil - Steel coil nut and no o-rings (p/n 173800539)

\*\*DIN only - external rectifier needed

#### Connector Type

| Standard Coil Code | Robust Coil Code | Connector Type           |
|--------------------|------------------|--------------------------|
| 00                 | R00              | 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         |
| SE3B | 3/8 BSP, AL    | SDC10-3-SE3B       |
| SE4B | 1/2 BSP, AL    | SDC10-3-SE4B       |
| 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 |