

# Solenoid Valves

## SVP08-NCR

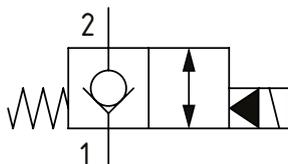
Solenoid Valve, 2-way, Poppet Type, Normally Closed, Pilot Operated with Reverse Free Flow

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

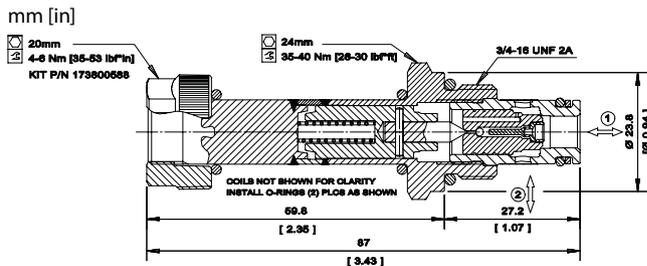
### OPERATION AND DESCRIPTION

This is a 2-way, 2-position, poppet type, pilot operated, normally closed solenoid valve. In its de-energized condition, flow passes from port 1 to 2 but is blocked in the opposite direction. When energized, flow passes from port 2 to 1 and from 1 to 2. Some models have the option of a filter at port 2. Due to the low leakage provided by the poppet design, these valves can be used to hold loads in position or to interrupt a pressure line where flow normally passes in both directions.

### SCHEMATIC



### DIMENSIONS



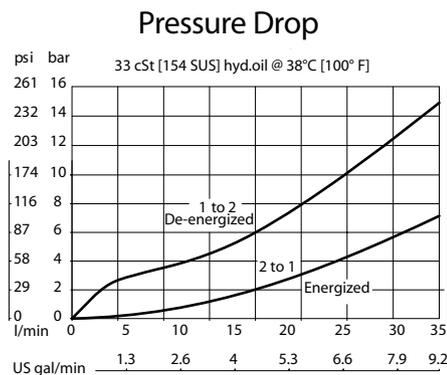
### PERFORMANCE DATA

|                        |                              |
|------------------------|------------------------------|
| <b>Rated Pressure*</b> | <b>230 bar [3300 psi]**</b>  |
| <b>Rated flow</b>      | <b>35 l/min [9 US gpm]</b>   |
| <b>Leakage</b>         | 6 drops/min @ Rated Pressure |
| <b>Coil Options</b>    | M13, R13                     |
| <b>Weight</b>          | 0.23 kg [0.51 lb]            |
| <b>Cavity</b>          | SDC08-2                      |

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

\*\*Valve can operate at 315 bar [4600 psi] for 600,000 cycles

### PERFORMANCE CURVES



### MODEL CODE

**SVP08 - NCR - 12D - DE - M - B - F - 00**

#### 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                 | 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     |                    |
| 4S   | #4 SAE, AL     | CP08-2-6S          |
| 6S   | #6 SAE, AL     | CP08-2-6S          |
| S6S  | #6 SAE, Steel  | CP08-2-S6S         |
| DG2B | 1/4 BSP, AL    | SDC08-2-DG2B       |
| DG3B | 3/8 BSP, AL    | SDC08-2-DG3B       |
| S3B  | 3/8 BSP, Steel | CP08-2-S3B         |

\* 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 | 354000119 |
| V - Viton    | 354000219 |

#### Manual Override Option

Omit - No Override  
M - Screw Type (Pull)