

# Solenoid Valves

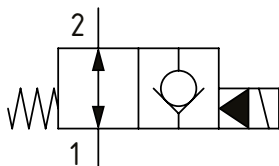
## SV13-20-O

Solenoid Valve, 2-way, Poppet Type, Normally Open, Pilot Operated with Reverse Free Flow  
**350 bar [5000 psi] • 230 l/min [60 US gpm]**

### OPERATION AND DESCRIPTION

This is a 2-way, 2-position, poppet type, pilot operated, normally open solenoid valve. When de-energized, flow can take place from port 2 to 1 and from 1 to 2. In its energized condition flow can take place from port 1 to 2 but is blocked in the other direction. Leakage is kept to a minimum due to the poppet design. These valves can be used to hold loads in position when energized, interrupt a pressure line where flow normally passes in both directions, or bypass excess oil to tank in a fail-safe way.

### SCHEMATIC



### PERFORMANCE DATA

<b>Rated Pressure</b>	<b>350 bar [5000 psi]</b>
<b>Rated flow</b>	<b>230 l/min [60 US gpm]</b>
<b>Leakage</b>	5 drops/min max @ 350 bar [5000 psi]
<b>Coil Options</b>	H series
<b>Weight</b>	0.62 kg [1.37 lb]
<b>Cavity</b>	SDC20-2

### MODEL CODE

SV13 - 20 - V - O - P - S - 6G - 12D - G - H

**Seal Option**

Code	Seal kit
Omit - Buna - N	889615
V - Viton	889619

**Manual Override Option**

Omit - No manual override  
P - Push type  
S - Screw type

**Housing Material**

Omit - No Housing  
S - Steel

**Housing**

Code	Ports	Steel
0	No Housing	
6G	3/4" BSP	02-175110
8G	1" BSP	02-175111
12T	#12 SAE	02-175108
16T	#16 SAE	02-175109

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

**Coil Series**

Omit - No coil  
H - 10 series, 29 W

**Connector Type**

Omit - No coil  
G - ISO 4400 DIN 43650  
Q - Spade terminals  
W - Flying lead  
N - Deutsch (DC only)  
Y - Amp JR (DC only)  
D - Metripack 150 male (DC only)  
J - Metripack 280 male (DC only)

**Coil Voltage**

Code	Coil Voltage
00	No Coil, nut included, (p/n 02-175698)
12D	12 VDC
24D	24 VDC
115A	115 VAC**
230A	230 VAC**
12B	2VDC/w diode*
24B	24 VDC/w diode*

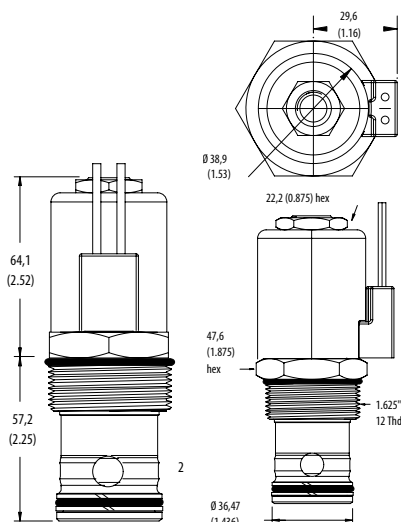
\*Optional arc suppression diode  
\*\*Internally rectified  
\*\*\*Other voltage options available

### DIMENSIONS

mm [in]

**Coil nut torque**  
5-8 Nm [4-6 ft. lbs]

**Installation torque**  
163-183 Nm [120-135 ft. lbs]



### PERFORMANCE CURVES

