

Solenoid Valves

SV3-12-O

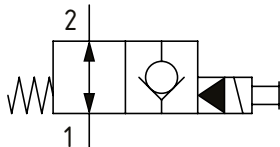
Solenoid Valve, 2-way, Poppet Type, Normally Open, Pilot Operated with Reverse Free Flow

210 bar [3000 psi] • 114 l/min [30 USgpm]

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

Rated Pressure	210 bar [3000 psi]
Rated flow	114 l/min [30 US gpm]
Leakage	5 drops/ min @ 210 bar [3000 psi]
Coil Options	J series
Weight	0.34 kg [0.74 lb]
Cavity	C-12-2/C-12-2U

MODEL CODE

SV3 - 12 - V - O - P - A - 4G - U - 12D - G

Seal Option

Code	Seal kit
Omit - Buna - N	02-165889
V - Viton	02-165888

Manual Override Option

Omit - No manual override	Housing Material
P - Push type	Omit - No housing
S - Screw type	A - Aluminum

Housing

Code	Ports	C-12-2 Aluminum Heavy Duty	C-12-2U Aluminum Heavy Duty
0	No Housing		
4G	1/2" BSP	02-161118	02-161116
6G	3/4" BSP	02-161117	02-161115
10T	#10 SAE	02-160640	02-160641
12T	#12 SAE	02-160644	02-160645

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

Cavity

Omit - Cavity without undercut/No housing
U - Cavity with undercut

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 565559)
12D	12 VDC
24D	24 VDC
115A	115 VAC**
230A	230 VAC**
12B	2VDC/w diode*
24B	24 VDC/w diode*

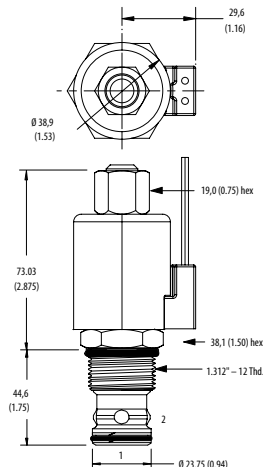
*Optional arc suppression diode
**Internally rectified
***Other voltage options available

DIMENSIONS

mm [in]

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

Installation torque
81-95 Nm [60-70 ft. lbs]



PERFORMANCE CURVES

