

Solenoid Valves

SV3-16-O

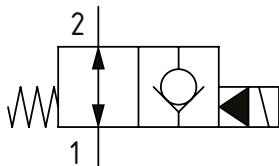
Solenoid Valve, 2-way, Poppet Type, Normally Open, Pilot Operated with Reverse Free Flow

210 bar [3000 psi] • 132 l/min [35 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

Rated Pressure	210 bar [3000 psi]
Rated flow	132 l/min [35 US gpm]
Leakage	5 drops/ min @ 210 bar [3000 psi]
Coil Options	J series
Weight	0.9 kg [1.98 lb]
Cavity	SDC16-2

MODEL CODE

SV3 - 16 - V - O - P - A - 6B - 12D - G

Seal Option

Code	Seal kit
Omit - Buna - N	565810
V-Viton	889609

Manual Override Option

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

Housing Material

Omit - No Housing
A - Aluminum

Housing

Code	Ports	Aluminum Standard Duty	Aluminum Heavy Duty
0	No Housing		
6B	3/4" BSP	02-175463	
12T	#12 SAE	566149	
6G	3/4" BSP		876718
10H	#10 SAE		876717
12H	#12 SAE		566113

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

* Additional housings available

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

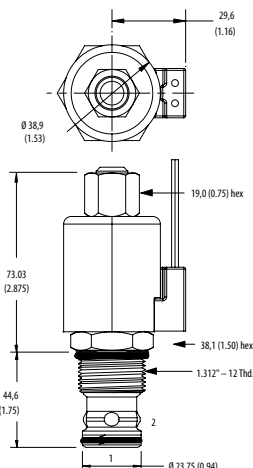
**Internally rectified

***Other voltage options available

DIMENSIONS

mm [in]

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

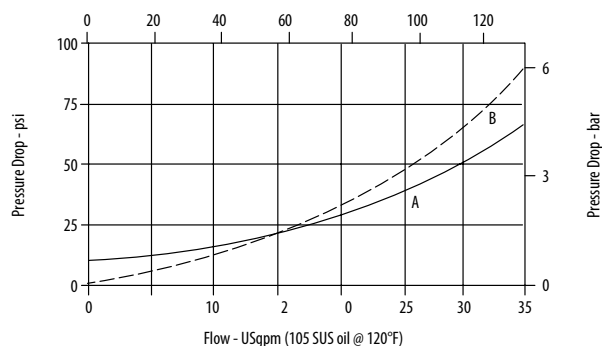


Installation torque
108-122 Nm [80-90 ft. lbs.]

PERFORMANCE CURVES

Pressure Drop

Flow - L/min (21,8 cSt oil @ 49°C)



A - Port 1 to 2 energized • B - Port 2 to 1 de-energized