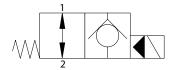
SV3-8-O/OP/OS - Solenoid Valve

Poppet type, normally open solenoid valve 23 L/min (6 USgpm) • 210 bar (3000 psi)



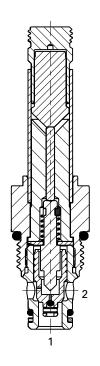
Operation

In the de-energized position the valve allows free flow in both directions. When the solenoid is energized the pilot poppet closes the orifice and the valve closes blocking flow from port 2 to 1 while allowing free flow from port 1 to 2.

Features

Hardened and ground working parts. Lapped seat for low leakage. IP69K Tough coil compatibility. Continuously rated. Compact design with low pressure drop.

Sectional View



Performance Data

Ratings and Specifications

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Performance data is typical with fluid at 21,8 c.	ST (105 SUS) and 49°C (120°F)		
Typical application pressure (all ports)	210 bar (3000 psi)		
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)		
Rated flow	23 L/min (6 USgpm)		
Internal leakage less that	less than 5 drops/min, max @ 210 bar (3000 psi) with valve energized		
Temperature range	-40° to 120°C (-40° to 248°F)		
Coil duty	Continuous from 85% to 110% of nominal voltage		
Response times (100% rated voltage and	flow) Energize: 24 ms. De-Energize: 25 ms		
Cavity	C-8-2		
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc		
Filtration	Cleanliness code 18/16/13		
Housing material (standard)	Aluminum		
Weight including coil	0,28 kg (0.62 lbs)		
Seal kit	02-165875 (Buna-N) 02-165877 (Viton®)		

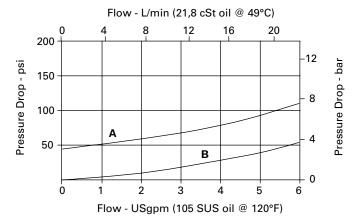
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way, 2-position, poppet type, pilot operated, normally open solenoid valve. This valve is used in applications requiring low leakage, such as load holding applications or as a general purpose diverter or dump valve.

Pressure Drop

Cartridge Only



A - Port 1 to port 2 energized

B - Port 2 to port 1 de-energized





SV3-8-O/OP/OS - Solenoid Valve

Poppet type, normally open solenoid valve 23 L/min (6 USgpm) • 210 bar (3000 psi)

Model Code

SV3 - 8 (V) - O (*) (F) - (A) ** - **** * S - 00

1 2 3 4 5 6 7 8 9 10 11 12

1 Function

SV3 - Solenoid valve

2 Size

8 - 8 size

3 Seal Material

Blank - Buna-N V - Viton®

4 Style

O - Normally open

5 Manual Override Option

Blank - No manual override

P - Push type **S** - Screw type

For valve dimensions with manual override option installed see page A-980.

6 Filter Option

Blank - None

F - Filter screen

7 Valve Housing Material

Omit for cartridge only

A - Aluminum

8 Port Size

Code	Port Size	Housing Number	
0	Cartridge only		
2G	1/4" BSPP	02-160727	
3G	3/8" BSPP	02-160728	
4T	SAE 4	02-160730	
6T	SAE 6	02-160731	
8T	SAE 8	02-160732	

See section J for housing details.

9 Voltage Rating

 00 No coil
 24A - 24VAC

 12D 12VDC
 115A - 115VAC

 24D 24VDC
 230A - 230VAC

36D - 36VDC **12B** - 12VDC/w diode* **24B** - 24VDC/w diode* *Optional arc suppression diode.

10 Connector Types

Blank - 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)

11 Coil Series

S - 8 series, 20 W

For coil part numbers and dimensions see section C.

12 Special Features

00 - None

(Only required if valve has special features, omitted if "00".)

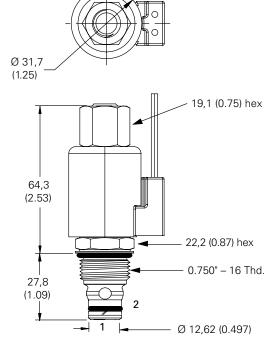
Dimensions mm (inch)

Cartridge Only

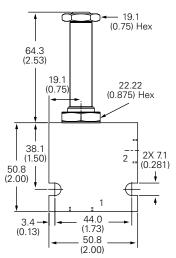
Torque cartridge in aluminum housing 34-41 Nm (25-30 ft lbs)

26,0

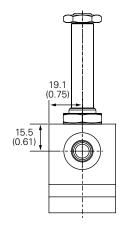
(1.02)



Installation Drawing



Note: When solenoid valve is ordered as cartridge only, coil nut is included.





WARNING

Maintain 5-8 Nm (4-6 ft lbs) maximum

torque on valve tube nut. Over tightening may cause valve failure.



