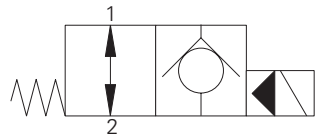


SV3-10-O/OP/OS - Solenoid Valve

Poppet type, normally open solenoid valve (free reverse flow)
45 L/min (12 USgpm) • 210 bar (3000 psi)

A



Operation

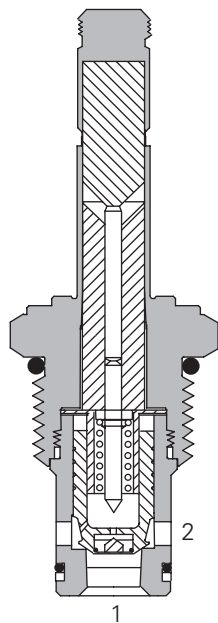
In the de-energized position the valve allows free flow in both directions.

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

Performance data is typical with fluid at 21,8 cSt (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	45 L/min (12 USgpm)
Internal leakage, port 2 to port 1	less than 5 drops/min max @ 210 bar (3000 psi)
Temperature range	-40° to 120°C (-40° to 248°F)
Coil duty	Continuous from 85% to 110% of nominal voltage
Cavity	C-10-2
Fluids	All general purpose hydraulics fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration	Cleanliness code 18/16/13
Housing material (standard)	Aluminum
Weight including coil	0,4 kg (0.87 lbs)
Seal kit	565803 (Buna-N), 566086 (Viton®)

Viton is a registered trademark of E.I. DuPont

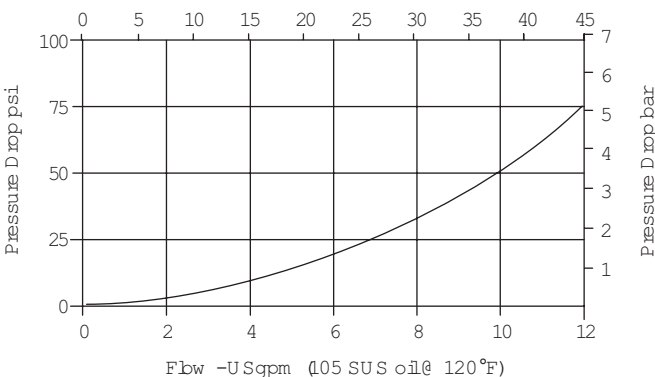
Description

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

Flow - L/min @ 21,8 cSt oil @ 49°C



Port 1 to port 2 and port 2
to port 1 de-energized

SV3-10-O/OP/OS - Solenoid Valve

Poppet type, normally open solenoid valve (free reverse flow)

45 L/min (12 USgpm) • 210 bar (3000 psi)

Model Code

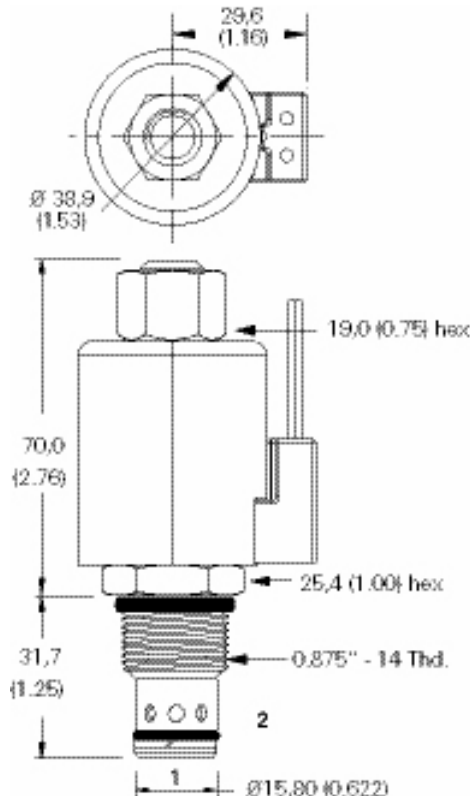
SV3	-	10	(V)	-	O	(*)	(F)	-	**	-	****	*	-	00
1		2	3		4	5	6		7		8	9		10

1 Function	7 Port Size	9 Connector Types
SV3 - Solenoid valve	Code Port Size Housing Number	Blank - No coil
	0 Cartridge only	G - ISO 4400 DIN 43650
2 Size	3B 3/8" BSPP 02-175462*	Q - Spade terminals
10 - 10 size	6T SAE 6 566151*	W - Flying lead
	2G 1/4" BSPP 876702	N - Deutsch (DC only)
3 Seal Material	3G 3/8" BSPP 876703	Y - Amp JR (DC only)
Blank - Buna-N	6H SAE 6 876700	D - Metripack 150 male (DC only)
V - Viton*	8H SAE 8 876701	J - Metripack 280 male (DC only)
	*Light duty housing.	For coil part numbers and dimensions see section C.
4 Style	See section J for housing details.	10 Special Features
O - Normally open	8 Voltage Rating	00 - None
5 Manual Override Option	00 - No coil 24A - 24VAC	(Only required if valve has special features, omitted if "00")
Blank - No manual override	12D - 12VDC 115A - 115VAC	
P - Push type	24D - 24VDC 230A - 230VAC	
S - Screw type	36D - 36VDC 12B - 12VDC/w diode*	
For valve dimensions with manual override option installed see page A-980.	24A - 24VDC/w diode*	
	*Optional arc suppression diode.	
6 Filter Option		

Dimensions

mm (inch)

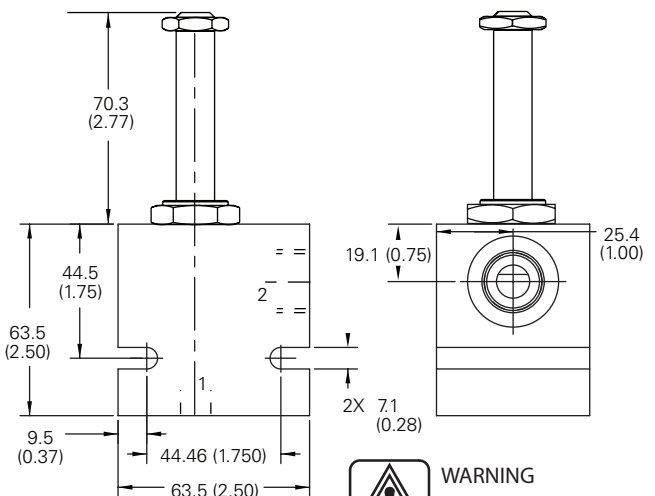
Cartridge Only



Torque cartridge in aluminum housing 47-54 Nm (35-40 ft lbs)
Note: Use J series, 23 W coils with this solenoid valve.

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

Installation Drawing



WARNING
Maintain 5-8 Nm (4-6 ft lbs) maximum torque on valve tube nut. Over tightening may cause valve failure.