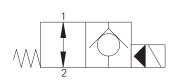
SV3-10-O/OP/OS - Solenoid Valve

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



Operation

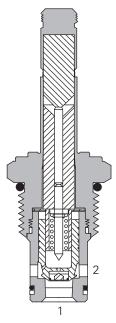
In the de-energized position the valve allows free flow in both directions. When the solenoid is energized the pilot poppet closes the orifice and the valve closes blocking flow from port 2 to 1 while allowing free flow from port 1 to 2.

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

А



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.

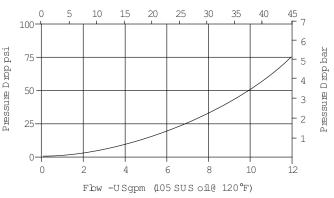
Performance Data

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

Pressure Drop





Fbw -L/m in @1,8 cStoil@ 49°C)

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

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



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 1 2 3 4	(*) (F) - ** - **** 5 6 7 8	* - 00 9 10	
1FunctionSV3 - Solenoid valve	7 Port Size Code Port Size	Housing Number	9 Connector Types Blank - No coil G - ISO 4400 DIN 43650	
2 Size 10 - 10 size	0Cartridge only3B3/8" BSPP6TSAE 6	02-175462* 566151*	Q -Spade terminalsW -Flying leadN -Deutsch (DC only)	
3 Seal Material Blank - Buna-N V - Viton 4 Style	2G1/4" BSPP3G3/8" BSPP6HSAE 68HSAE 8*Light duty housing.See section J for housing details.	876702 876703 876700 876701	 Y - Amp JR (DC only) D - Metripack 150 male (DC only) J - Metripack 280 male (DC only) For coil part numbers and dimensions see section C. 	
 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. 	8 Voltage Rating 00 - No coil 12D - 12VDC 24D - 24VDC 36D - 36VDC	24A - 24VAC 115A - 115VAC 230A - 230VAC 12B - 12VDC/w diode* 24A - 24VDC/w diode* *Optional arc suppression diode.	10 Special Features 00 - None (Only required if valve has special features, omitted if "00".)	
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. Installation Drawing	Note: When solenoid valve is ordered as cartridge only, coil nut is included.	
70,0 (2.76) 31,7 (1.25) 0 0	19,0 (0.75) hex 25,4 (1.00) hex 0.875" - 14 Thd.	70.3 (2.77) 44.5 (2.50) 9.5 (0.37) $44.46 (1.750)$ $63.5 (2.50)$	25.4 19.1 (0.75) 19.1 (0.75) 19.2 (1.00) 19.2 (1.00) 1	
Integrated Hydraulics		ritical request certified drawings. We reserve the	torque on valve tube nut. Over tightening may cause valve failure. right to change specifications without notice.	



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