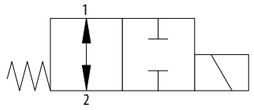
SV14-8-O/OM - Solenoid valve

Spool type, normally open solenoid valve
13 L/min (3.5 USgpm) • 350 bar (5000 psi)



Operation

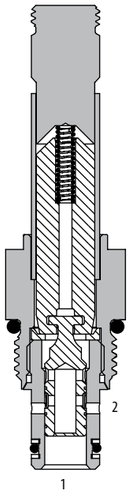
In the de-energized position the valve is open in both directions.

When the solenoid is energized the spool moves causing the valve to close in both directions.

Features

Hardened, ground and honed working parts to limit leakage. IP69 Tough coil compatibility. Continuously rated. Compact design with low pressure drop. 350 bar working pressure.

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)	350 bar (5000 psi)
Cartridge fatigue pressure (infinite life)	310 bar (4500 psi)
Rated flow	13 L/min (3.5 USgpm)
Internal leakage, port 2 to port 1	140 cm3/min (8.5 in3/min) max @ 350 bar (5000 psi)
Temperature range	-40° to 100°C (-40° to 212°F)
Coil duty	Continuous from 85% to 110% of nominal voltage
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)	Steel
Weight Cartridge only	0,11 kg (0.25 lbs)
Seal kit	02-165875 (Buna-N), 02-165877 (Viton®)

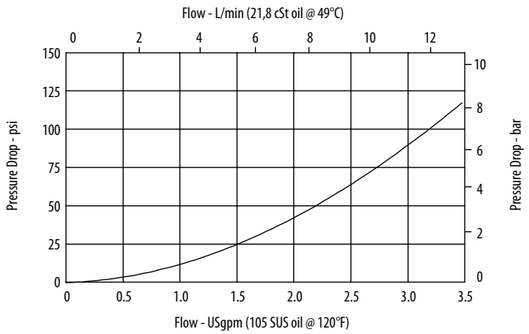
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way, 2-position, spool type, high pressure, direct acting, normally open solenoid valve. This valve is used in applications where the flow needs to be blocked in both directions when the solenoid is energized.

Pressure drop

Cartridge only



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

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

SV14-8-O/OM - Solenoid valve

Spool type, normally open solenoid valve
13 L/min (3.5 USgpm) • 350 bar (5000 psi)

Model code

SV14	–	8	(V)	–	O	(M)	–	(S)	**	–	****	*	P	–	00
1		2	3		4	5		6	7		8	9	10		11

1 Function
SV14 - 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
M - Manual override

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

6 Valve housing material
Blank - Cartridge only
S - Steel

7 Port size

Code	Port size	Housing number
0	Cartridge only	
2G	1/4" BSPP	02-160733
3G	3/8" BSPP	02-160734
4T	SAE 4	02-160736
6T	SAE 6	02-160737
8T	SAE 8	02-160738

See section J for housing details.

8 Voltage rating
00 - No coil
12D - 12VDC
24D - 24VDC
36D - 36VDC
24A - 24VAC
115A - 115VAC
230A - 230VAC
12B - 12VDC/w diode*
24B - 24VDC/w diode*

*Optional arc suppression diode.

9 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)

10 Coil series
P - 8 series, 23 W

For coil part numbers and dimensions see section C.

11 Special features
00 - None

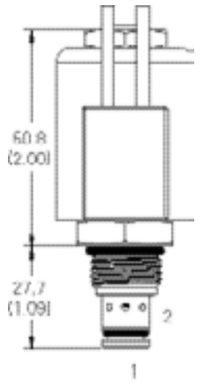
(Only required if valve has special features, omitted if "00".)

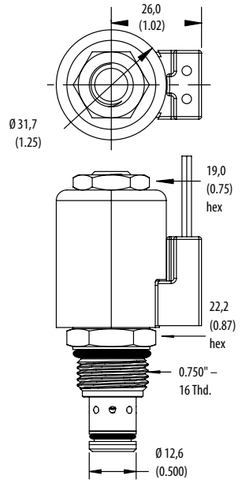
Dimensions
mm (inch)

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

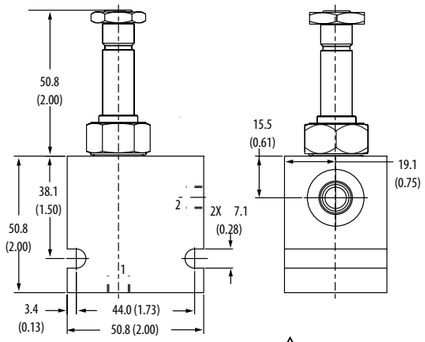
Note: When solenoid valve is ordered as cartridge only, nut is included.

Cartridge only





Installation drawing



⚠ Warning

Maintain 5-8 Nm (4-6 ft lbs) maximum torque on valve tube nut.

Over tightening may cause valve failure.

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