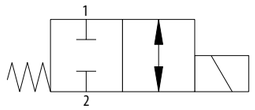
SV4-10-C/CM/CR - Solenoid valve

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



Operation

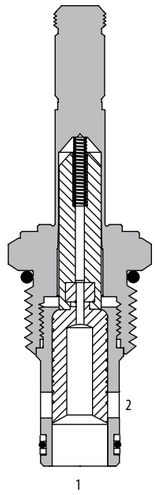
In the de-energized position the valve blocks flow in both directions.

When the solenoid is energized the spool moves allowing the valve to open 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.

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	23 L/min (6 USgpm)
Internal leakage	82 cm³/min (5 in³/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 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	0,4 kg (0.087 lbs)
Seal kit	565806 (Buna-N), 889627 (Viton®)

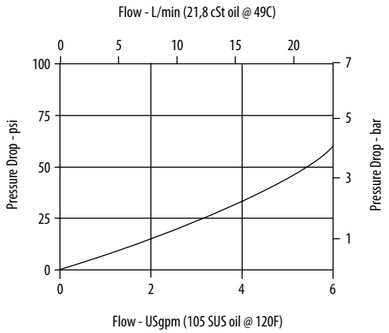
Viton is a registered trademark of E.I. DuPont

Description

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

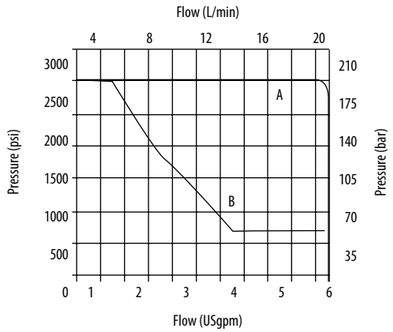
Pressure drop

Cartridge only



Pressure drop vs. Flow

Port 1 to port 2 or
port 2 to port 1 energized



Operating Limits

A - Port 2 to port 1
B - Port 1 to port 2

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

SV4-10-C/CM/CR - Solenoid valve

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

Model code

SV4 – 10 (V) – C (*) (F) – ** – **** * – 00
1 2 3 4 5 6 7 8 9 10

1 Function

SV4 - Solenoid valve

2 Size

10 - 10 size

3 Seal material

Blank - Buna-N
V - Viton®

4 Style

C - Normally closed

5 Manual override option

Blank - No manual override
M - Knob type
R - Cable type

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

6 Filter option

Blank - None
F - Filter screen

7 Port size

Code	Port size	Housing number
0	Cartridge only	
3B	3/8" BSPP	02-175464*
6T	SAE 6	566151*
2G	1/4" BSPP	876702
3G	3/8" BSPP	876703
6H	SAE 6	876700
8H	SAE 8	876701

*Light duty housing.
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)

For coil part numbers and dimensions see section C.

10 Special features

00 - None

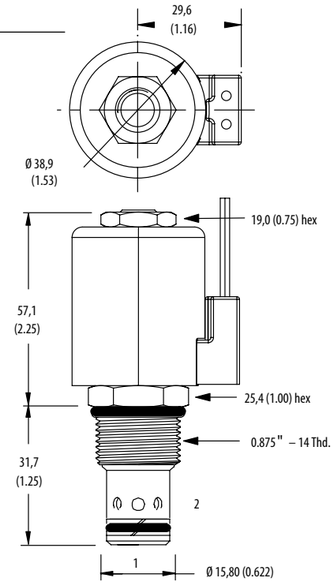
(Only required if valve has special features, omitted if "00".)

Note: Use J series, 23 W coils with this solenoid valve.

Dimensions

mm (inch)

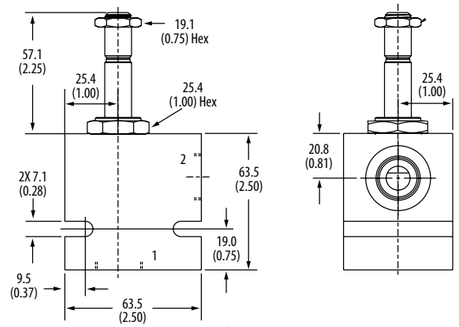
Cartridge only



Torque cartridge in steel housing
45-54 Nm (35-40 ft lbs)

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.

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