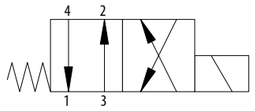
SV11-10-4/4M - Solenoid valve

4-way, 2-position, spool type solenoid valve
23 L/min (6 USgpm) • 350 bar (5000 psi)



Operation

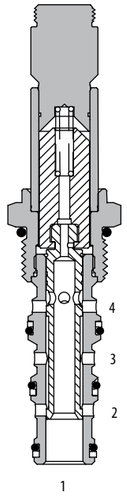
In the de-energized position this valve allows flow from port 4 to port 1 and from port 3 to port 2.

In the energized position flow is allowed from port 3 to port 4 and from port 2 to port 1.

Features

Hardened, ground and honed working parts to limit leakage. IP69K Tough coil compatibility. Continuously rated. Compact design with low Pressure drop. Rated pressure on all ports. Working pressure 350 bar.

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	23 L/min (6 USgpm)
Internal leakage, port 2 to port 1	82 cm³/min. (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-10-4
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	0,21 kg (0.46 lbs)
Seal kit	889625 (Buna-N), 566080 (Viton®)

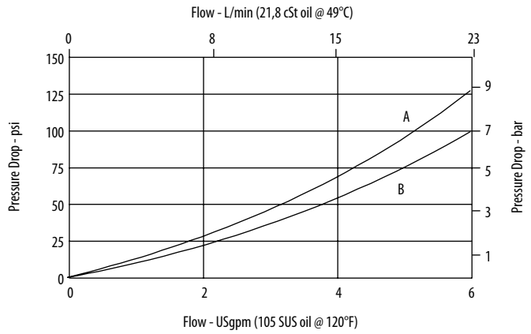
Viton is a registered trademark of E.I. DuPont

Description

This is a 4-way 2-position, high pressure, direct acting, spool type solenoid valve. This valve can be used in applications where the motion of a double acting cylinder or a motor needs to be reversed.

Pressure drop

Cartridge only



A - Port 3 to port 2
B - Port 4 to port 1

SV11-10-4/4M - Solenoid valve

4-way, 2-position, spool type solenoid valve
23 L/min (6 USgpm) • 350 bar (5000 psi)

Model code

SV11 – 10 (V) – 4 (M) – (S) ** – ** * H – 00**

1 2 3 4 5 6 7 8 9 10 11

1 Function
SV11 - Solenoid valve

2 Size
10 - 10 size

3 Seal material
Blank - Buna-N
V - Viton®

4 Style
4 - 4-way, 2-position

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 - Omit for Cartridge only
S - Steel

7 Port size

Code	Port size	Housing number
0	Cartridge only	
2G	1/4" BSPP	02-175139
3G	3/8" BSPP	02-175140
6T	SAE 6	02-175137
8T	SAE 8	02-175138

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 Coil 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 Coil series
H - 10 series, 29W

For coil part numbers and dimensions see section C.

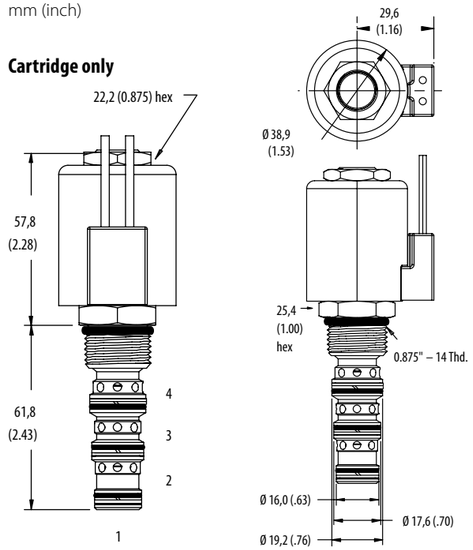
11 Special features
00 - None

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

Dimensions

mm (inch)

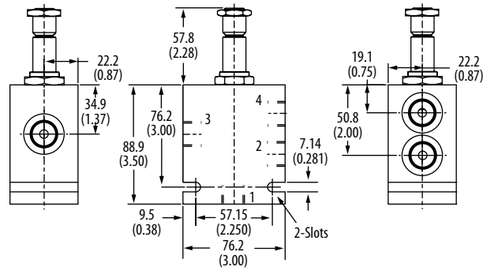
Cartridge only



Torque cartridge in steel housing 68-75 Nm (50-55 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.