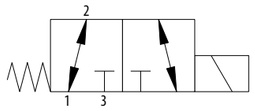
SV4-10-3/3P/3S - Solenoid valve

3-way, 2-position spool type solenoid valve
Up to 23 L/min (6 USgpm) • 210 bar (3000 psi)



Operation

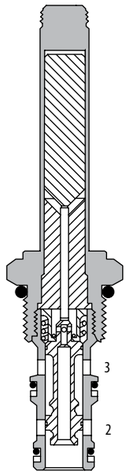
In the de-energized position this valve allows flow from port 2 to 1 while port 3 is blocked.

In the energized position flow is allowed from port 2 to port 3 while port 1 is blocked.

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.

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	210 bar (3000 psi)* *Flow from P1 to P2 must be less than 7,6 L/min (2 USgpm)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Rated flow	23 L/min (6 USgpm) Max. flow port 1 to port 2-10 L/min (2.5 USgpm)
Internal leakage	164 cm³/min (10 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-10-3
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	0,42 kg (0.93 lbs)
Seal kit	889624 (Buna-N), 889628 (Viton®)

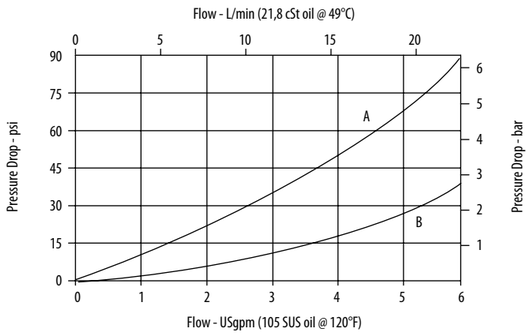
Viton is a registered trademark of E.I. DuPont

Description

This is a 3-way 2-position, direct acting, spool type solenoid valve. This valve can be used in applications requiring separate pressure and tank lines, such as a single acting cylinder or any other application where a three way two position solenoid valve is needed.

Pressure drop

Cartridge only



A - Port 3 to port 2 energized
B - Port 2 to port 1 de-energized

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

SV4-10-3/3P/3S - Solenoid valve

3-way, 2-position spool type solenoid valve
Up to 23 L/min (6 USgpm) • 210 bar (3000 psi)

Model code

SV4 – 10 (V) – 3 (*) – ** – **** * – 00

1 2 3 4 5 6 7 8 9

1 Function

SV4 - Solenoid valve

2 Size

10 - 10 size

3 Seal material

Blank - Buna-N
V - Viton®

4 Style

3 - 3-way, 2 position

5 Manual override option

Blank - No manual override
M - Manual override
P - Push type
S - Screw type

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

6 Port size

Code	Port size	Housing number
0	Cartridge only	
3B	3/8" BSPP	02-173358*
6T	SAE6	566162*
2G	1/4" BSPP	876705
3G	3/8" BSPP	876714
6H	SAE 6	876704
8H	SAE 8	876711

*Light duty housing.
See section J for housings.

7 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.

8 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 dimensions see section C.

9 Special features

00 - None

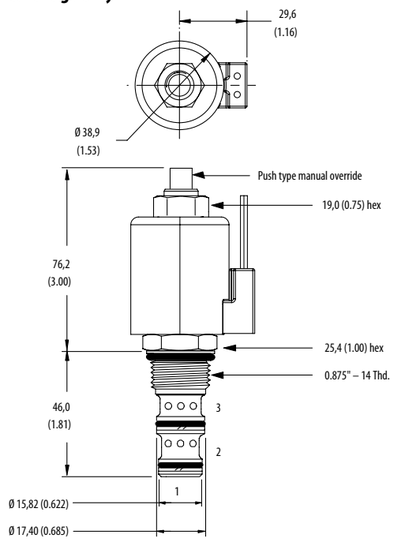
(Only required if valve has Special features, omitted if "00.")

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

Dimensions

mm (inch)

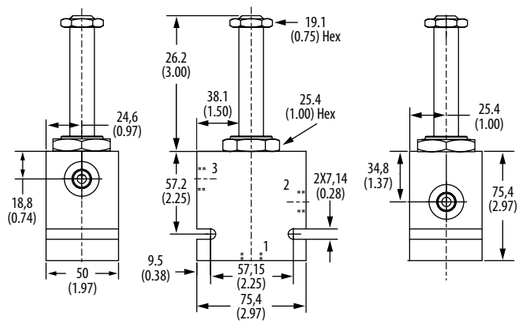
Cartridge only



Torque cartridge in aluminum housing 47-54 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.

⚠ Warning

Flow from port 1 to port 2 must be less than 7,6 L/min (2 USgpm).

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