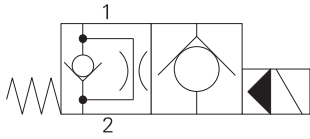


# SV15-10-O/OP/OS - Solenoid valve

Poppet type, normally open solenoid valve  
45 L/min (12 USgpm) • 350 bar (5000 psi)

A



## Operation

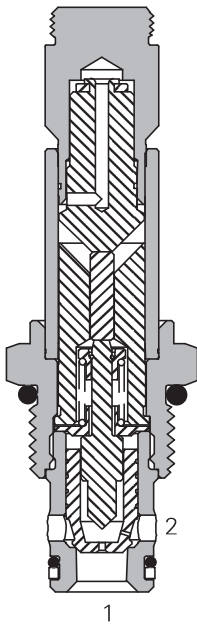
In the de-energized position the valve allows free flow from port 2 to 1 and a restricted flow through the pilot orifice from port 1 to 2.

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. 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	45 L/min (12 USgpm)
Internal leakage	less than 5 drops/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-10-2
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)	Steel
Weight cartridge only	0,18 kg (0.39 lbs)
Seal kit	565803 (Buna-N), 566086 (Viton®)

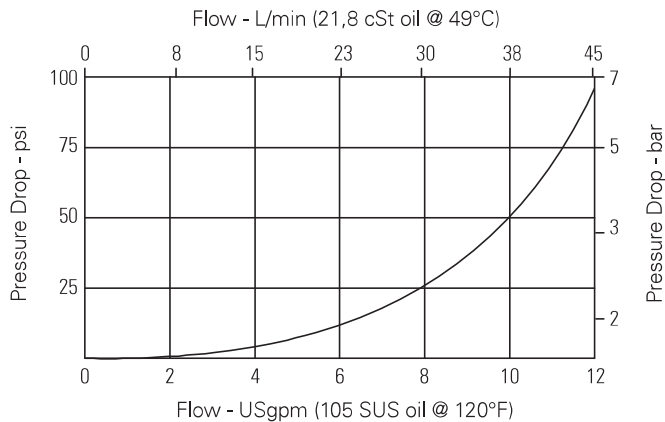
Viton is a registered trademark of E.I. DuPont

## Description

This is a 2-way, 2-position, poppet type, high pressure, 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.

## Pressure drop

Cartridge only



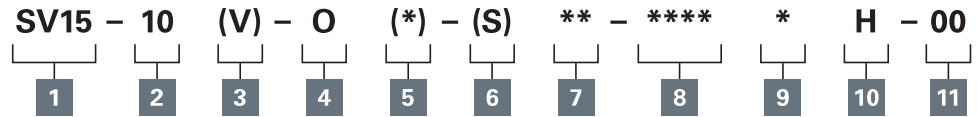
Port 2 to port 1 de-energized

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

# SV15-10-O/OP/OS - Solenoid valve

Poppet type, normally open solenoid valve  
45 L/min (12 USgpm) • 350 bar (5000 psi)

## Model code



A

### 1 Function

SV15 - Solenoid valve

### 2 Size

10 - 10 size

### 3 Seal material

Blank - Buna-N

V - Viton®

### 4 Style

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.

### 6 Valve housing material

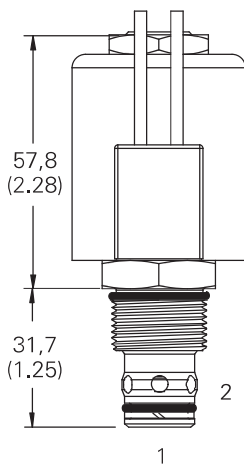
Blank - Cartridge only

S - Steel

## Dimensions

mm (inch)

### Cartridge only



### 7 Port size

Code	Port size	Housing number
0	Cartridge only	
2G	1/4" BSPP	02-175102
3G	3/8" BSPP	02-175103
6T	SAE 6	02-175100
8T	SAE 8	02-175101

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\*
- 24A - 24VDC/w diode\*

\*Optional arc suppression diode.

### 9 Connector types

- Blank - No coil
- G - ISO 4400 DIN 43650
- Q - Spade terminals
- W - Leadwire
- N - Deutsch (DC only)
- Y - Amp JR (DC only)
- D - Metripack 150 male (DC only)
- J - Metripack 280 male (DC only)

### 10 Coil series

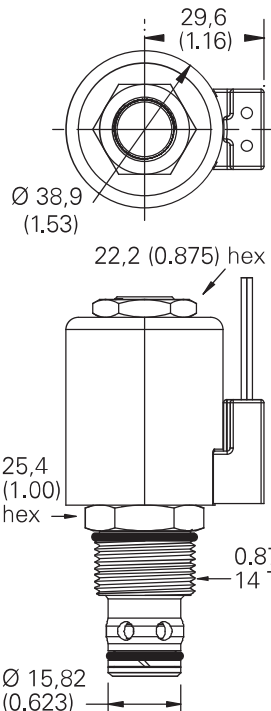
H - 10 series, 29W

For coil part numbers and dimensions see section C.

### 11 Special features

00 - None

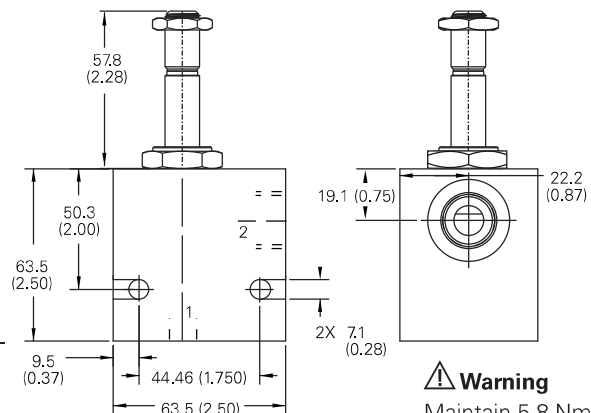
(Only required if valve has special features, omitted if "00".)



Torque cartridge in aluminum housing 68-75 Nm (50-55 ft lbs)

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