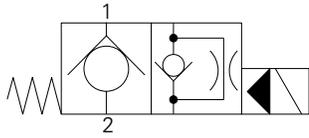


# SV15-8-C/CM - Solenoid Valve

Poppet type, normally closed solenoid valve  
37 L/min (10 USgpm) • 350 bar (5000 psi)

**A**



## Operation

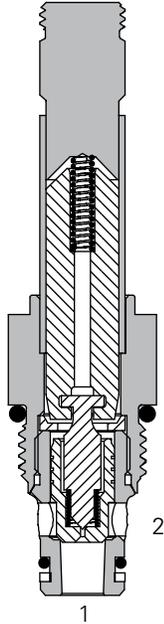
In the de-energized position the valve blocks flow from port 2 to 1 and free flow is allowed from port 1 to 2.

When the solenoid is energized the pilot poppet is pulled off the seat allowing the valve to open from port 2 to 1. In the reverse direction the flow is restricted by the pilot orifice.

## 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	37 L/min (10 USgpm)
Internal leakage, port 2 to port 1	5 drops/min, max @ 210 bar (3000 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®)

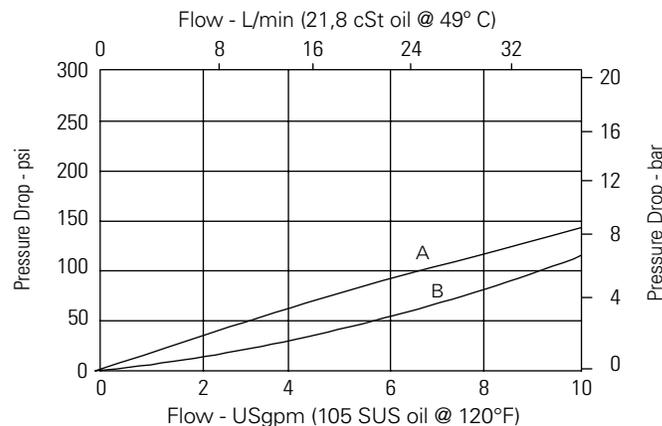
Viton is a registered trademark of E.I. DuPont

## Description

This is a 2-way, 2-position, poppet type, high pressure, pilot operated, normally closed 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



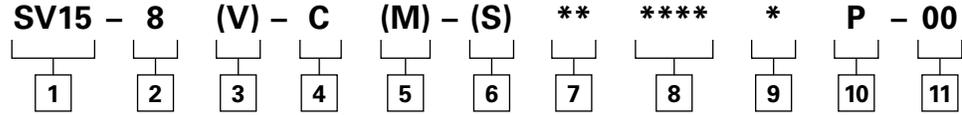
**A** - Port 1 to port 2

**B** - Port 2 to port 1

# SV15-8-C/CM - Solenoid Valve

Poppet type, normally closed solenoid valve  
37 L/min (10 USgpm) • 350 bar (5000 psi)

## Model Code



**1 Function**  
SV15 - Solenoid valve

**2 Size**  
8 - 8 size

**3 Seal Material**  
Blank - Buna-N  
V - Viton®

**4 Style**  
C - Normally closed

**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	24A - 24VAC
12D	12VDC	115A - 115VAC
24D	24VDC	230A - 230VAC
36D	36VDC	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.")

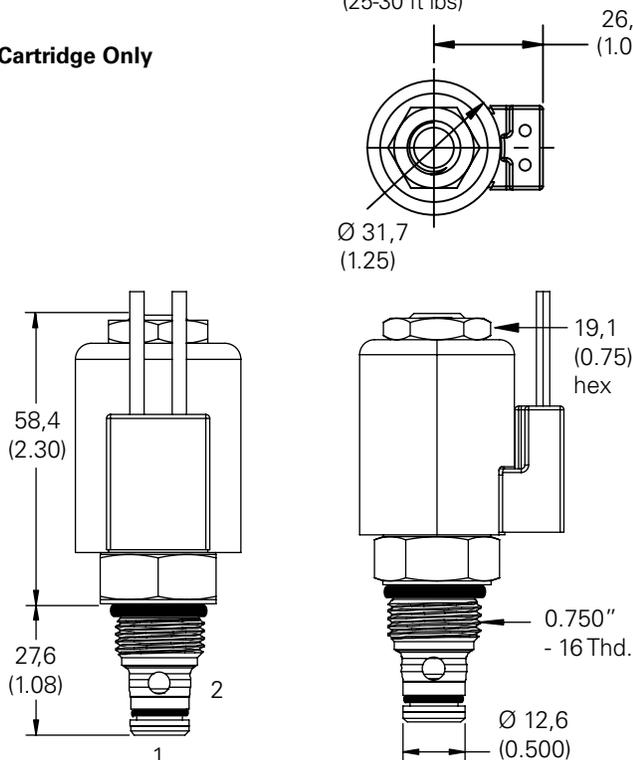
## Dimensions

mm (inch)

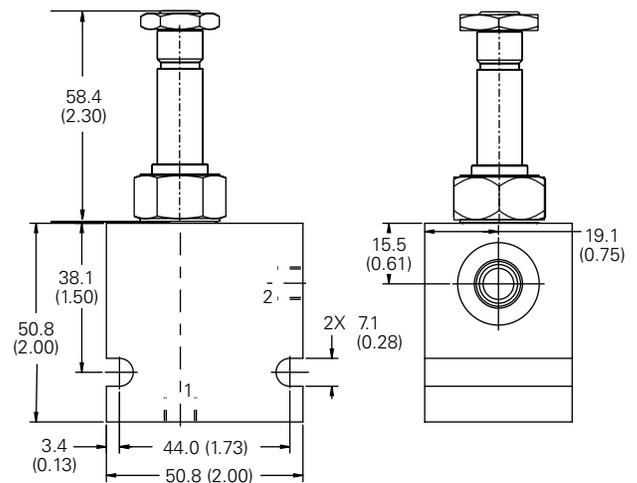
### Cartridge Only

Torque cartridge in aluminum or steel housing 34-41 Nm (25-30 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.