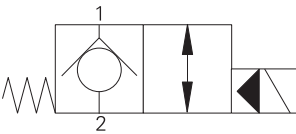


# SV1-16-C/CM/CR - Solenoid valve

2-way, 2-position, normally closed, poppet type solenoid valve  
 132 L/min (35 USgpm) • 210 bar (3000 psi)



## Operation

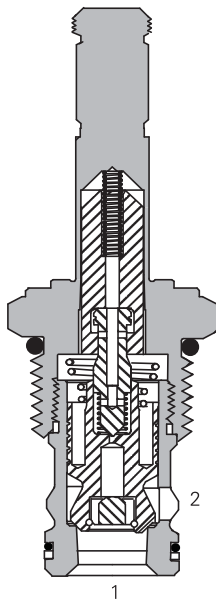
In the de-energized position the valve blocks flow from port 2 to 1 and free flow is allowed from port 1 to 2.

When the solenoid is energized the pilot poppet is pulled off the seat allowing the valve to open in both directions.

## Features

Hardened and ground working parts. Lapped seat for low leakage. IP69K 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	132 L/min (35 USgpm)
Internal leakage, port 2 to port 1	less than 5 drops/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-16-2
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	1,15 kg (2.53 lbs)
Seal kit	565810 (Buna-N), 02-889609 (Viton®)

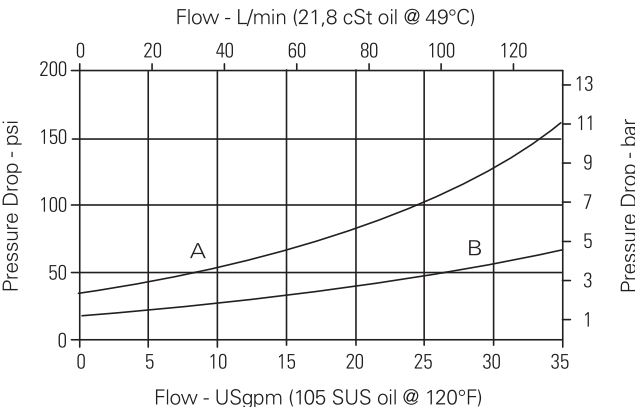
Viton is a registered trademark of E.I. DuPont

## Description

This is a 2-way, 2-position, poppet type, 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 2 to port 1 energized  
**B** - Port 1 to port 2 de-energized

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

# SV1-16-C/CM/CR - Solenoid valve

2-way, 2-position, normally closed, poppet type solenoid valve  
132 L/min (35 USgpm) • 210 bar (3000 psi)

## Model code

SV1 - 16 (V) - C (\*) - \*\*\* - \*\*\*\* \* - 00

1 2 3 4 5 6 7 8 9

### 1 Function

SV1 - Solenoid valve

### 2 Size

16 - 16 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 Port size

Code	Port size	Housing number
0	Cartridge only	
6B	3/4" BSPP	02-175463*
12T	SAE 12	566149*
6G	3/4" BSPP	876717
10H	SAE 10	876717
12H	SAE 12	566113

See section J for housing details.

\*Light duty housing

### 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 part numbers and dimensions see section C.

### 9 Special features

00 - None

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

## Dimensions

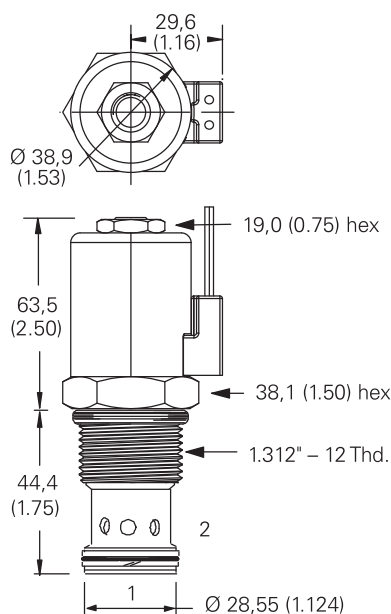
mm (inch)

Torque cartridge in aluminum housing  
108-122 Nm (80-90 ft lbs)

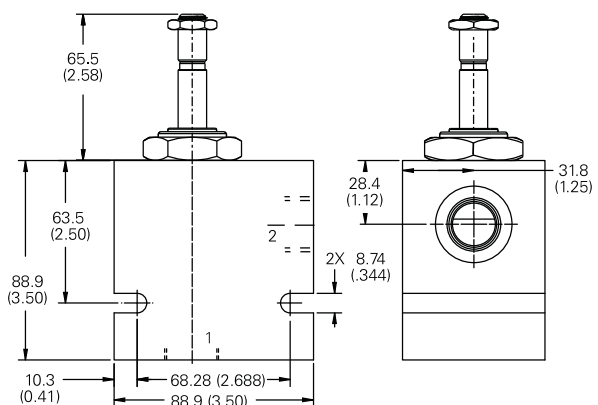
**Note:** When solenoid valve is ordered as cartridge only, coil nut is included.

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

## Cartridge only



## Installation drawings



## 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.