

# SV3-10-C/CM/CR

Poppet type, normally closed solenoid valve (free reverse flow)

## Description

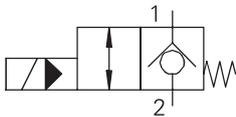
The SV3-10-C is a 2-way, 2-position, poppet-type, normally closed screw-in cartridge solenoid valve.

## Operation

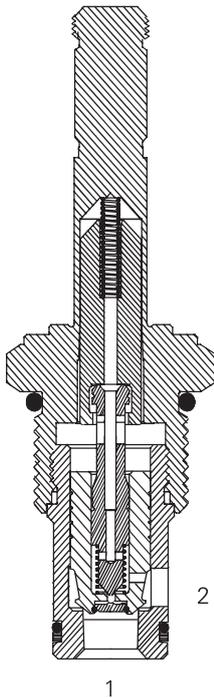
In the de-energized position, flow is blocked from port 2 to port 1 and free flow is allowed from port 1 to port 2.

In the energized position, the poppet lifts to allow flow in either direction.

## Functional Symbol



## Sectional View

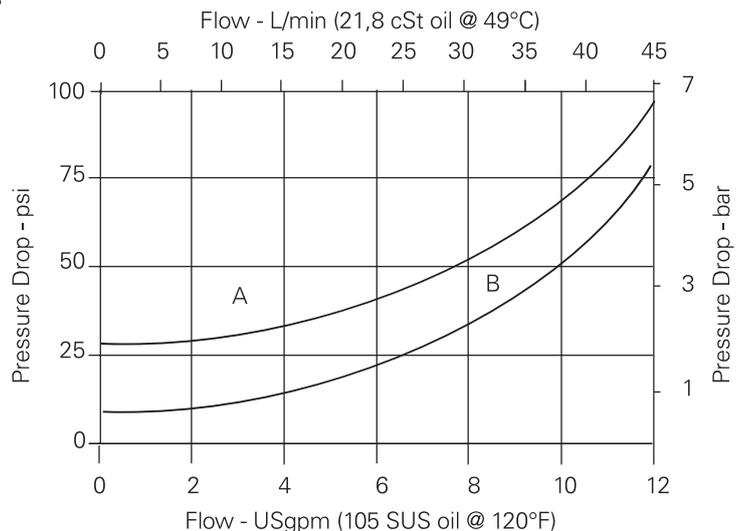


## RATINGS AND SPECIFICATIONS

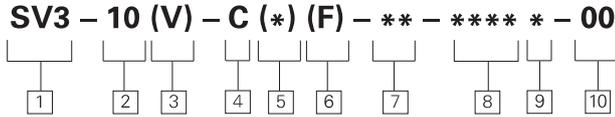
<i>Performance data is typical with fluid at 21,8 cSt (105 SUS) and 49°C (120°F)</i>	
Typical application pressure (all ports)	210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Rated flow	45 L/min (12 USgpm)
Internal leakage	less than 5 drops/min. max @ 210 bar (3000 psi)
Temperature range	-40° to 120°C (-40° to 248°F)
Coil duty	Continuous from 85% to 110% of nominal voltage
Cavity	C-10-2
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 cartridge only	0,4 kg (0.87 lbs)
Seal kit	565803 (Buna-N), 566086 (Viton®) <small>Viton is a registered trademark of E.I. DuPont</small>

## Pressure Drop Curves

Cartridge only



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



**1 Function**  
**SV3** - Solenoid valve

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**2 Size**  
**10** - 10 size

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

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**4 Style**  
**C** - Normally closed

**7 Port Size**

CODE	PORT SIZE	HOUSING NUMBER
<b>0</b>	Cartridge only	
<b>3B</b>	3/8" BSPP	02-175462*
<b>2G</b>	1/4" BSPP	876702
<b>3G</b>	3/8" BSPP	876703
<b>6T</b>	SAE 6	566151*
<b>6H</b>	SAE 6	876700
<b>8H</b>	SAE 8	876701

\*Light duty housing  
 See section J for housing details.

**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)

For coil part numbers and dimensions see Section C.

**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-153.

**8 Voltage rating**

<b>00</b> - No coil	<b>24A</b> - 24VAC
<b>12D</b> - 12VDC	<b>115A</b> - 115VAC
<b>24D</b> - 24VDC	<b>230A</b> - 230VAC
<b>36D</b> - 36VDC	<b>12B</b> - 12VDC/w diode*
	<b>24B</b> - 24VDC/w diode*

\*Optional arc suppression diode.

**10 Special features**  
**00** - None

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

**6 Filter option**  
**Blank** - None  
**F** - Filter screen

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

**Dimensions**  
 mm (inch)

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.

**WARNING**  
 Maintain 5-8 Nm (4-6 ft. lbs) maximum torque on valve tube nut. Over tightening may cause valve failure.

