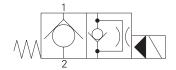
Poppet type, normally closed solenoid valve 45 L/min (12 USgpm) • 210 bar (3000 psi)



Operation

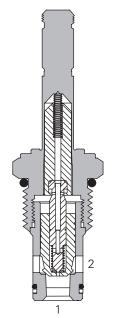
In the de-energized position the valve blocks flow from port 2 to 1 and free flow is allowed from port 1 to 2.

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

Sectional View



Performance Data

Ratings	and	Speci	ficati	ons

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	45 L/min (12 USgpm)				
Internal leakage	Less than 5 drops/min. max @ 210 bar (3000 psi)				
Coil duty	Continuous from 85% to 110% of nominal voltage				
Response times (100% rated voltage and flow)	Energize: 18 ms, de-energize: 46 ms				
Temperature range	-40° to 120°C (-40° to 248°F)				
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 including coil	0,4 kg (0.087 lbs)				
Seal kit	565803 (Buna-N), 566086 (Viton [*])				

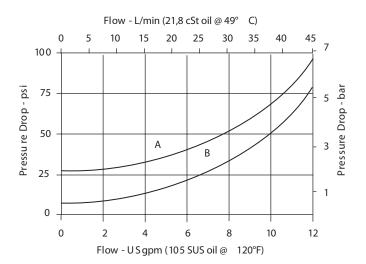
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way, 2-position, poppet type, 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



Pressure Drop vs. Flow

A - Port 1 to port 2 de-energized

B - Port 2 to port 1 energized

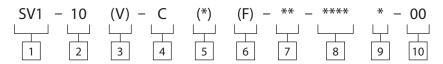




SV1-10-C/CM/CR-Solenoid Valve

Poppet type, normally closed solenoid valve 45 L/min (12 USgpm) • 210 bar (3000 psi)

Model Code



1 Function

SV1 - Solenoid valve

2 Size

10 - 10 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 overrideoptioninstalledseepageA-980.

6 Filter Option

Blank - None

F - Filter screen

7 Port Size

Code	Port Size	Housing Number	
0	Cartridge only		
3B	3/8" BSPP	02-175464*	
6T	SAE 6	566151*	
2G	1/4" BSPP	876702	
3G	3/8" BSPP	876703	
6H	SAE 6	876700	
8H	SAE 8	876701	

*Light duty housing. 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)

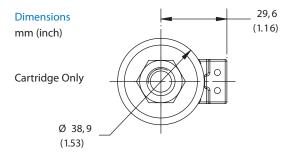
Forcoilpartnumbersanddimensions see section C.

10 Special Features

00 - None

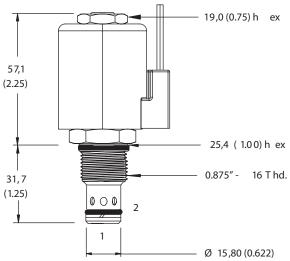
(Only required if valve has special features, omitted if "00".)

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



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.

