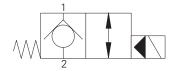
2-way, 2-position, normally closed, poppet type solenoid valve 132 L/min (35 USgpm) • 210 bar (3000 psi)



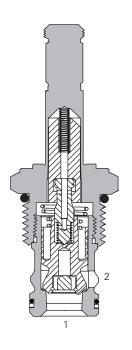
Operation

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

| Performance data is typical with fluid at 21,8 cST (1 | 05 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') |
| VII. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |

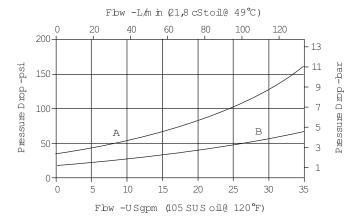
Viton is a registered trademark of E.I. DuPont

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

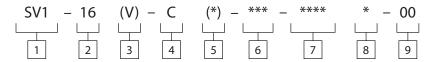




SV1-16-C/CM/CR - Solenoid Valve

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

Model Code



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)

Forcoilpartnumbersanddimensions see section C.

9 Special Features

00 - None

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

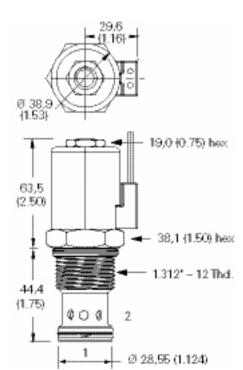
Dimensions

mm (inch)

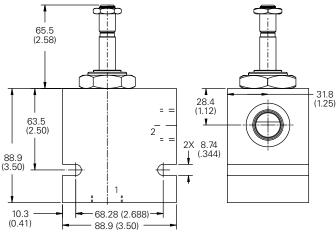
Torque cartridge in aluminum housing 108-122 Nm (80-90 ft lbs) Note: When solenoid valve is ordered as cartridge only, coil nut is included.

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

Cartridge Only









WARNING Maintain 5-8 Nm (4-6 ft lbs) maximum

torque on valve tube nut. Over tightening may cause valve failure.



