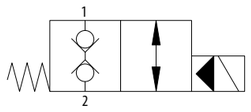
SBV11-10-C - Solenoid valve

2-way, 2-position, normally closed, bi-directional, poppet type solenoid valve
76 L/min (20 USgpm) • 350 bar (5000 psi)



Operation

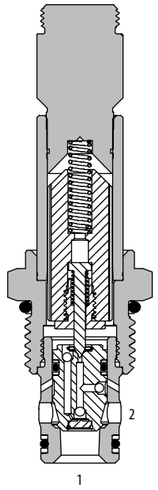
In the de-energized position the valve is blocked in both directions.

When the solenoid is energized the pilot poppet is released from the seat allowing the main poppet to open. A series of internal check valves allows full flow 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. 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	76 L/min (20 USgpm)
Internal leakage	5 drops/min, max @ 350 bar (5000 psi)
Temperature range	-40° to 100°C (-40° to 212°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 or steel
Weight cartridge only	0,18 kg (0.39 lbs)
Seal kit	565806 (Buna-N), 889627 (Viton®)

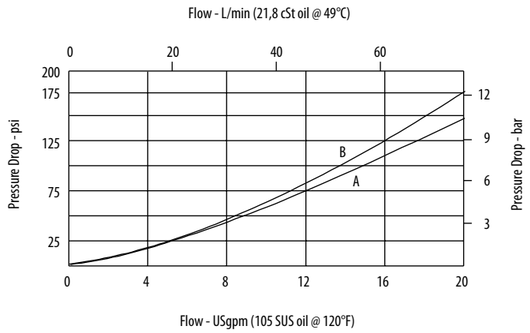
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way 2-position, high pressure bi-directional, pilot operated, normally closed poppet type screw in cartridge valve. The valve is ideal for isolating and holding actuators in position.

Pressure drop

Cartridge only



A - Port 1 to port 2
B - Port 2 to port 1

A

SBV11-10-C - Solenoid valve

2-way, 2-position, normally closed, bi-directional, poppet type solenoid valve
76 L/min (20 USgpm) • 350 bar (5000 psi)

Model code

SBV11 **10** **(V)** **C** **(*)** ****** ******** ***** **H** – **00**
1 2 3 4 5 6 7 8 9 10

1 Function

SBV11 - Solenoid bi-directional valve

2 Size

10 - 10 size

3 Seal material

Blank - Buna-N
V - Viton®

4 Style

C - Normally closed

5 Valve housing material

Blank - Cartridge only
A - Aluminum
S - Steel

6 Port size

Code	Port size	Housing number	
		Aluminium	Steel
0	Cartridge only		
2G	1/4" BSPP	876702	02-175102
3G	3/8" BSPP	876703	02-175103
3B	3/8" BSPP	02-175462	–
6H	SAE 6	876700	–
6T	SAE 6	566151	02-175100
8H	SAE 8	876701	–
8T	SAE 8	–	02-175101

See section J for housing details.

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)

9 Coil series

H - 10 series, 29 W

For coil part numbers and dimensions see section C.

10 Special features

00 - None

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

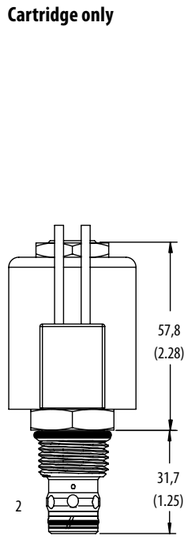
Dimensions

mm (inch)

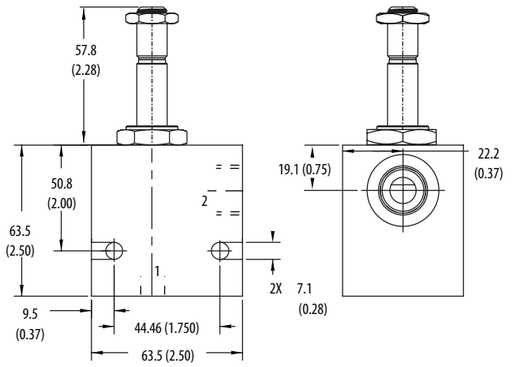
Torque cartridge in housing
A - 47-54 Nm (35-40 ft lbs)
S - 68-75 Nm (50-55 ft lbs)

Note: For applications above 210 bar please consult our technical department or use the steel body option.

Cartridge only



Installation drawing (Steel)



⚠ Warning

Maintain 5-8 Nm (4-6 ft lbs) maximum torque on valve tube nut.

Over tightening may cause valve failure.

⚠ Warning

Aluminum housings can be used for pressures up to 210 bar (3000 psi). Steel housings **must** be used for operating pressures **above** 210 bar (3000 psi).