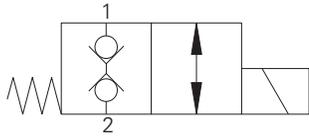


SBV12-8-C - Solenoid Bi-directional Valve

Bi-directional, normally closed solenoid valve (low flow version)

1 L/min (0.25 USgpm) • 350 bar (5000 psi)

A



Operation

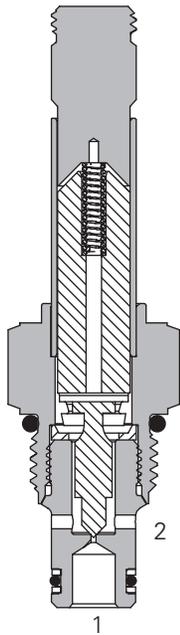
In the de-energized position the valve is blocked in both directions.

When the solenoid is energized the poppet is released from the seat allowing flow in both directions.

Features

Hardened and ground working parts. IP69K Tough coil compatibility. Continuously rated. Compact design with low pressure drop. 350bar 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)

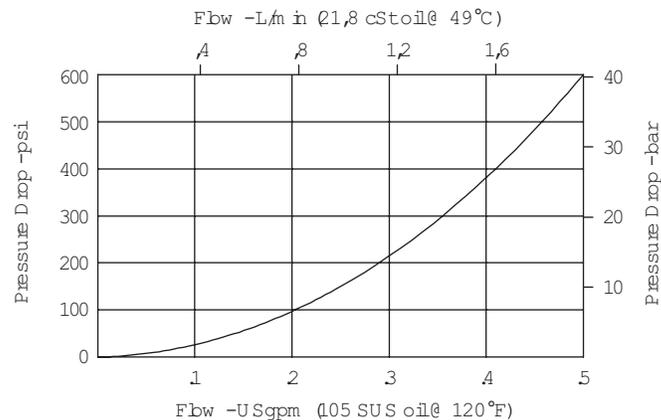
Typical application pressure (all ports)	350 bar (5000 psi)
Cartridge fatigue pressure (infinite life)	310 bar (4500 psi)
Rated flow	1 L/min (0.25 USgpm)
Internal leakage, port 1 to port 2 and port 2 to port 1	5 drops/min, max @ 350 bar (5000 psi)
Temperature range	-40° to 100°C (-40° to 212°F)
Coil duty	Continuous from 85% to 110% of nominal voltage
Cavity	C-8-2
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	0,120 kg (0.26 lbs)
Seal kit	02-160777 (Buna-N), 02-160778 (Viton)

Viton is a registered trademark of E.I. DuPont

Description

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

Pressure Drop Cartridge only



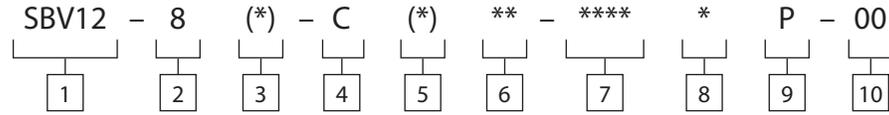
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

SBV12-8-C - Solenoid Bi-directional Valve

Bi-directional, normally closed solenoid valve (low flow version)

1 L/min (0.25 USgpm) • 350 bar (5000 psi)

Model Code



1 Function
SBV12 - Solenoid valve

2 Size
8 - 8 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	02-160727	02-160733
3G	3/8" BSPP	02-160728	02-160734
4T	SAE 4	02-160730	02-160736
6T	SAE 6	02-160731	02-160737
8T	SAE 8	02-160732	02-160738

See section J for housing details.

7 Voltage Rating

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

P - 8 series, 23 W
For coil part numbers and dimensions see section C.

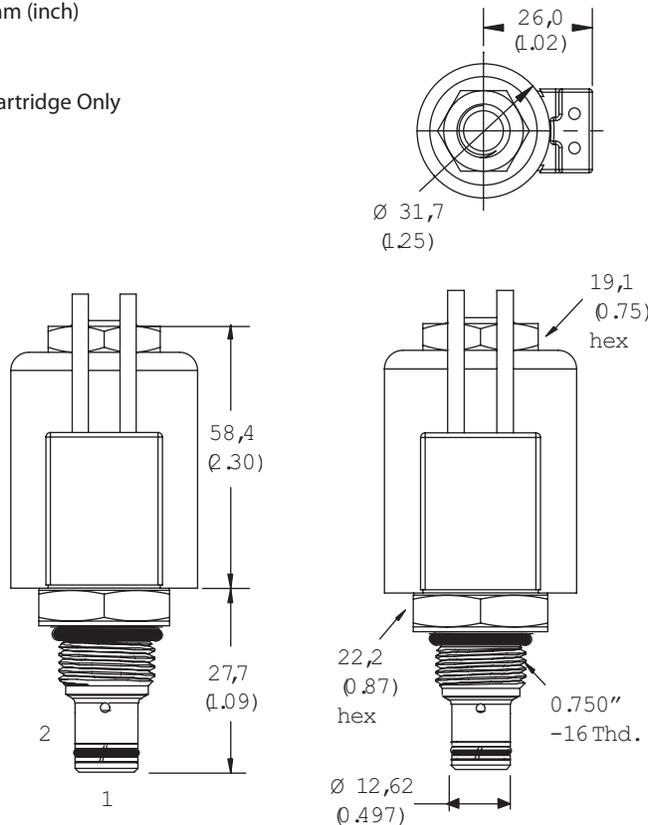
10 Special Features

00 - None
(Only required if valve has special features omitted if "00".)

Dimensions

mm (inch)

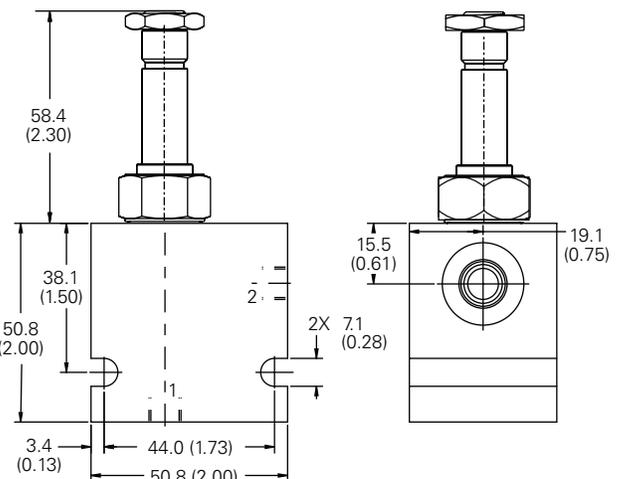
Cartridge Only



Torque cartridge in aluminum or steel housing 34-41 Nm (25-30 ft lbs).

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

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).