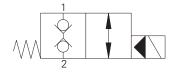
Bi-directional, normally closed solenoid valve 60 L/min (15 USgpm) • 350 bar (5000 psi)



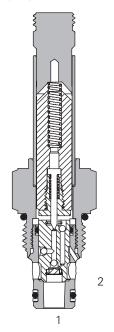
Operation

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

on

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	60 L/min (15 USgpm)			
Internal leakage, port 1 to port 2 & 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	0,12 kg (0.26 lbs)			
Seal kit	02-160777 (Buna-N), 02-160778 (Viton°)			

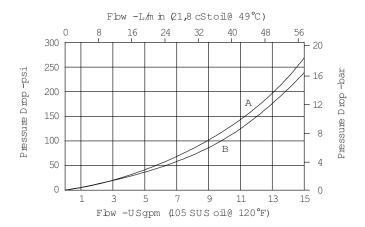
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way 2-position, 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

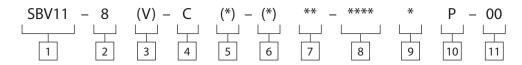




SBV11-8-C - Solenoid Bi-directional Valve

Bi-directional, normally closed solenoid valve 60 L/min (15 USgpm) • 350 bar (5000 psi)

Model Code



1 Function SBV11 - Solenoid valve

2 Size 8 - 8 size

3 Seal Material Blank - Buna-N V - Viton

4 Style

C - Normally closed

5 Manual Override Option

Blank - No manual override M - Manual override

For valve dimensions with manual over-ride option in stalled see page A-980.

6 Valve Housing Material

Blank - Cartridge only A - Aluminum

S - Steel

7 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.

8 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.

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)

10 Coil Series

P - 8 series, 23 W

Forcoilpartnumbersanddimensions see section C.

11 Special Features

00 - None

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

Note: When solenoid valve is

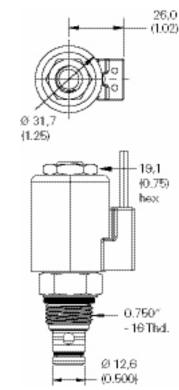
ordered as cartridge only, coil

nut is included.

Dimensions

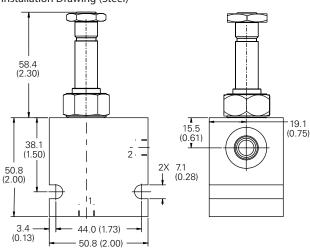
mm (inch)

Cartridge Only



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

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).





58,4 (2,30)

27,7

(1.09)