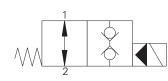
SBV11-8-O - Solenoid Bi-directional Valve

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



Operation

In the de-energized position the valve is open in both directions. A series of internal check valves allows full flow in both directions.

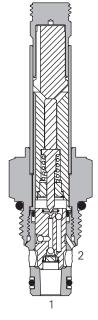
When the solenoid is energized the pilot poppet closes the pilot orifice causing the main poppet to close.

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

А



Description

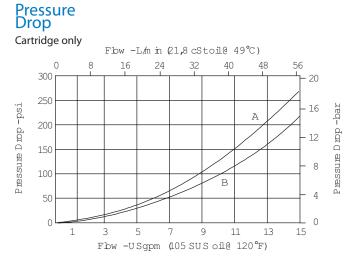
This is a 2-way 2-position, high pressure bi-directional, pilot operated, normally open poppet type screw in cartridge valve. The valve is ideal for isolating and holding actuators in position.

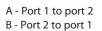
Performance Data

Ratings and Specifications	

Performance data is typical with fluid at 21,8 cST (105 S	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) when energized	
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 hydraulics 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 [®])	
Vitan is a namistan data dana data di F L DuDant		

Viton is a registered trademark of E.I. DuPont







available at: ATP Hydraulik AG Aahusweg 8 CH-6403 Küssnacht am Rigi www.atphydraulik.com

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



SBV11-8-O - Solenoid Bi-directional Valve

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

Model Code	SBV11 - 8 (V) - O 1 2 3 4		* P – 00 B 9 10
1 Function	6 Port Size		8 Connector Types
SBV11 - Solenoid	Code Port Size	Housing Number	Blank - No coil
bi-directional valve		Aluminium Steel	G - ISO 4400 DIN 43650 Q - Spade terminals
	0 Cartridge only		W - Flying lead
2 Size	2G 1/4" BSPP	02-160727 02-160733	N - Deutsch (DC only) Y - Amp JR (DC only)
8 - 8 size	3G 3/8" BSPP	02-160728 02-160734	Y - Amp JR (DC only) D - Metripack 150 male
	- 4T SAE 4	02-160730 02-160736	(DC only)
3 Seal Material	6T SAE 6	02-160731 02-160737	J - Metripack 280 male (DC only)
Blank - Buna-N	8T SAE 8	02-160732 02-160738	(BC ONLY)
V - Viton°	See section J for housing details.		9 Coil Series
A Cu. 1-	7 Voltage Rating		P - 8 Series, 23 W
4 Style	00 - No coil	24A - 24VAC	For coil part numbers and
O - Normally open	12D - 12VDC	115A - 115VAC	dimensions see section C.
E	24D - 24VDC 36D - 36VDC	230A - 230VAC 12B - 12VDC/w diode*	10 Special Features
5 Valve Housing Material	2010 - 2010C	24B - 24VDC/w diode*	00 - None
Blank - Cartridge only A - Aluminum		*Optional arc suppression diode.	(Only required if valve has special
			features, omitted if "00".)
Dimensions mm (inch)	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.	
Cartridge Only	26,0	Installation Drawing (Steel)	
58,4 (2.30	Ø 31, 7 (1.25) 19,0 (0.75) hex	58.4 (2.30) 38.1 (1.50) $2 - 2X$ (0.2) $(0.13) + 50.8$ (2.00)	7.1 (0.61) 7.1 (0.75)
27,7 2 (1.05 1	22,2 0,87) hex 0.750"- 16 Thd. Ø 12,62 0,497)	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).





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