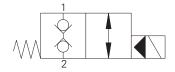
2-way, 2-position, normally closed, bi-directional, poppet type solenoid valve 114 L/min (30 USgpm) • 350 bar (5000 psi)



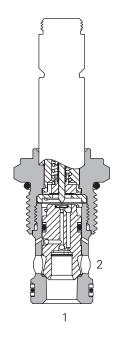
Operation

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	Specification
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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		114 L/min (30 USgpm)		
Internal leakage, port 1 to port 2 and port 2 to port 1		5 drops/min, max @ 350 bar (3000 psi)		
Temperature range		-40° to 100°C (-40° to 212°F)		
Coil duty	(Continuous from 85% to 110% of nominal voltage		
Cavity		C-12-2 or C-12-2U f undercut is required. If undercut is not specified, pm and 20 psi @ 30 USgpm higher pressure drop.		
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		0,27 kg (0.59 lbs)		
Seal kit		02-165889 (Buna-N), 02-165888 (Viton*)		
Viton is a registered trademark of EI	DuPont			

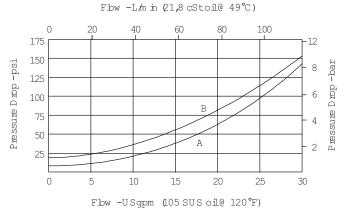
Viton is a registered trademark of E.I. DuPont

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



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

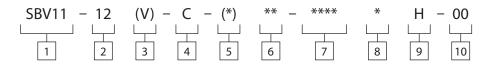




SBV11-12-C - Solenoid Valve

2-way, 2-position, normally closed, bi-directional, poppet type solenoid valve 114 L/min (30 USgpm) • 350 bar (5000 psi)

Model Code



Function

SBV11 - Solenoid bi-directional valve

Size 12 - 12 size

Seal Material Blank - Buna-N Viton

4 Style

C - Normally closed

Valve Housing Material

Blank - Cartridge only Aluminum A -

S-Steel Port Size

Code	Port Size	Housing Number	
		Aluminium	Steel
0	Cartridge only		
4G	1/2" BSPP	02-161118	02-172062
4GU	1/2" BSPP	02-161116	02-172512
6G	3/4" BSPP	02-161117	02-169665
6GU	3/4" BSPP	02-161115	02-162922
10T	SAE 10	02-160640	02-169744
10TU	SAE 10	02-160641	02-169817
12T	SAE 12	02-160644	02-169782
12TU	SAE 12	02-160645	02-169790

See section J for housing details.

Voltage Rating

00 -No coil 12D -12VDC

24VDC 24D -36D -36VDC 24A - 24VAC 115A - 115VAC

230A - 230VAC

12B - 12VDC/w diode* 24B - 24VDC/w diode*

*Optional arc suppression diode.

Connector Types

Blank - No coil

ISO 4400 DIN 43650 G-Q-Spade terminals

W-Flying lead

N-Deutsch (DC only) Υ -Amp JR (DC only)

D-Metripack 150 male

(DC only)

Metripack 280 male (DC only)

Coil Series

H - 10 series, 29 W

Forcoilpartnumbersanddimensions see section C.

10 Special Features

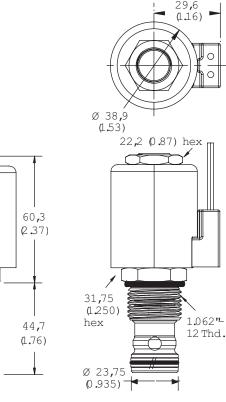
00 - None

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

Dimensions

mm (inch)

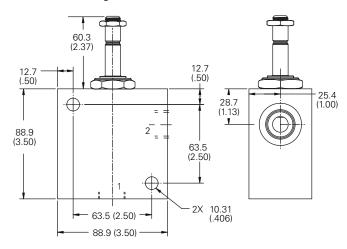
Cartridge Only



Torque cartridge in housing A - 81-95 Nm (60-70 ft lbs) S - 102-115 Nm (75-85 ft lbs)

Installation Drawing (Steel)

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





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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