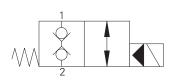
SBV1-12-C - Solenoid Valve

2-way, 2-position, normally closed, bi-directional, poppet type solenoid valve 114 L/min (30 USgpm) • 210 bar (3000 psi)



Operation

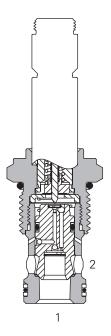
In the de-energized position the valve is blocked in both directions.

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.

Sectional View



Description

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

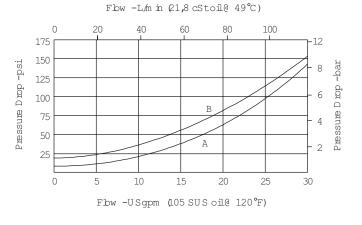
Performance Data

Performance data is typical with flui	d at 21,8 cST (105 SUS) an	d 49°C (120°F)
Typical application pressure (all ports)		210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)		210 bar (3000 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 @ 210 bar (3000 psi)
Temperature range		-40° to 100°C (-40° to 212°F)
Coil duty	(ontinuous from 85% to 110% of nominal voltage
Cavity		C-12-2 or C-12-2U undercut is required. If undercut is not specified om 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 stee
Weight cartridge only		0,27 kg (0.59 lbs)
Seal kit		02-165889 (Buna-N), 02-165888 (Viton)

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Pressure Drop

Cartridge only



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

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



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An Eaton Brand

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ER1121315001

SBV1-12-C-0-00

