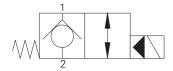
2-way, 2-position, normally closed, poppet type solenoid valve 114 L/min (30 USgpm) • 210 bar (3000 psi)



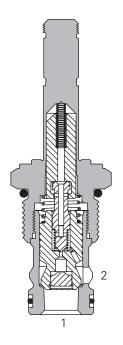
Operation

In the de-energized position the valve blocks flow from port 2 to 1 and free flow is allowed from port 1 to 2. When the solenoid is energized the pilot poppet is pulled off the seat allowing the valve to open 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



Performance Data

Datings and	Specifications
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)	210 bar (3000 psi)				
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)				
Rated flow	114 L/min (30 USgpm)				
Internal leakage (port 2 to port 1)	less than 5 drops/min, max @ 210 bar (3000 psi)				
Temperature range	-40° to 120°C (-40° to 248°F)				
Coil duty	Continuous from 85% to 110% of nominal voltage				
Response times (100% rated voltage and flow)	Energize: 75 ms De-Energize: 150 ms				
	C-12-2 or C-12-2U after number if undercut is required. If undercut is not specified, opsi @ 15 USgpm 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				
Weight including coil	0,336 kg (0.74 lbs)				
Seal kit	02-165889 (Buna-N), 02-165888 (Viton [®])				

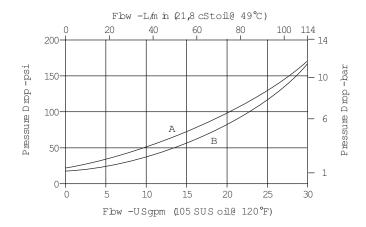
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way, 2-position, poppet type, pilot operated, normally closed solenoid valve. This valve is used in applications requiring low leakage, such as load holding applications or as a general purpose diverter or dump valve.

Pressure Drop Curves

Cartridge only



A - Port 1 to port 2 de-energized

B - Port 2 to port 1 energized

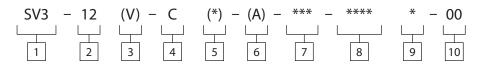




SV3-12-C/CM/CR - Solenoid Valve

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

Model Code



Function

SV3 - Solenoid valve

Size 12 - 12 size

3 Seal Material Blank - Buna-N ٧-Viton

4 Style

C - Normally closed

Manual Override Option

Blank - No manual override

M -Knob type R-Cable type

Forvalvedimensions with manual override option installed see page A-980.

6 Valve Housing Material Omit for cartridge only

A - Aluminum (standard)

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.

8 Voltage Rating

115A - 115VAC 00 -No coil 12VDC 12D -230A - 230VAC

24VDC 12VDC/w diode* 24D -12B -36VDC 24VDC/w diode* 36D -

24A -24VAC *Optional arc suppression diode. Connector Types

Blank - No coil

ISO 4400 DIN 43650 G-Q-Spade terminals

W-Flying lead

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

D-Metripack 150 male (DC only)

Metripack 280 male (DC only)

10 Special Features

00 - None

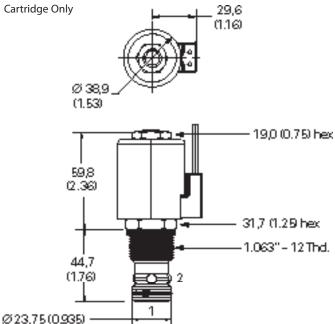
(Only required if valve has special features, omitted if "00.")

Dimensions

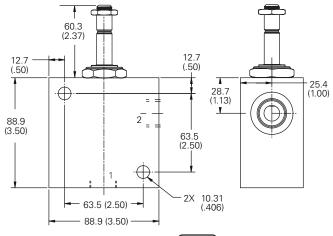
mm (inch)

Torque cartridge in housing A - 81-95 Nm (60-70 ft lbs) S - 102-115 Nm (75-85 ft lbs) Note: When solenoid valve is ordered as cartridge only, coil nut is included.

Note: Use J series, 23 W coils with this solenoid valve.



Installation Drawing (Aluminum)





WARNING Maintain 5-8 Nm (4-6 ft lbs) maximum

torque on valve tube nut. Over tightening may cause valve failure.





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