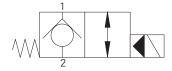
2-way, 2-position, normally closed, poppet type solenoid valve 114 L/min (30 USgpm) • 350 bar (5000 psi)



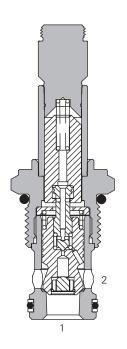
Operation

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. 350 bar working pressure.

Sectional View



Performance Data

| Performance data is typical with | fluid at 21,8 cST (105 SUS) and 49°C (120°F) |
|-------------------------------------|--|
| Typical application pressure (all p | ports) 350 bar (5000 psi) |
| Cartridge fatigue pressure (infinit | te life) 310 bar (4500 psi) |
| Rated flow | 114 L/min (30 USgpm) |
| Internal leakage | less than 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-12-2 or C-12-2U Add "U" after number if undercut is required. If undercut is not specified, expect 10 psi @ 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) | Steel |
| Weight cartridge only | 0,27 kg (0.59 lbs) |
| Seal kit | 02-165889 (Buna-N), 02-165888 (Viton') |
| | |

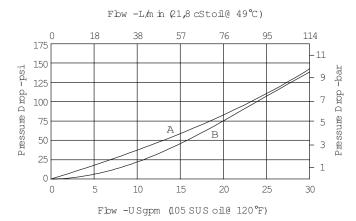
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way, 2-position, poppet type, high pressure, 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

Cartridge only



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





SV13-12-C/CM - Solenoid Valve

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

Model Code

| SV13 - | - 12 | (V) · | - C | (M) | – (S) | ** _ | **** | * | Н - | - 00 |
|--------|------|-------|-----|-----|-------|------|------|---|-----|------|
| | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

1 Function

SV13 - Solenoid valve

2 Size 12 - 12 size

3 Seal Material Blank - Buna-N

V - Viton^o

4 Style

C - Normally closed

5 Manual Override Option
Blank - No manual override
M - Manual override
For valve dimensions with
manual override option installed
see page A-980.

6 Valve Housing Material

Blank - Cartridge only A - Aluminum S - Steel (standard)

7 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

00 - No coil 115A - 115VAC 12D - 12VDC 230A - 230VAC 24D - 24VDC 12B - 12VDC/w diode*

36D - 36VDC 24B - 24VDC/w diode* 24A - 24VAC *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

H - 10 series, 29 W

Forcoilpartnumbersanddimensions see section C.

11 Special Features

00 - None

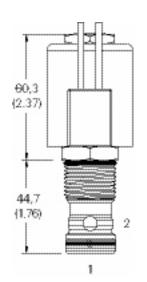
(Only required if valve has special features, omitted if "00.")

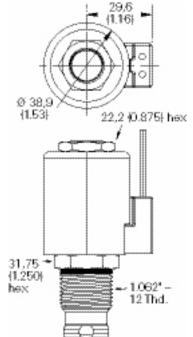
Dimensions

mm (inch)

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

Cartridge Only

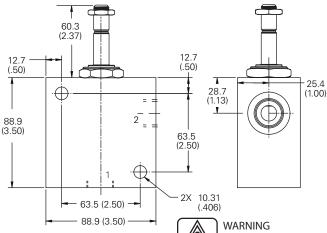




Note: When solenoid valve is ordered as cartridge only, coil nut is included.

Note: For applications above 210 bar please consult our technical department or use the steel body option.

Installation Drawing (Steel)





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

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





@ 23,77

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