

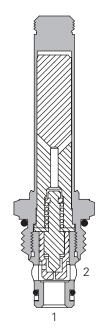
Operation

In the de-energized position the valve allows free flow from port 2 to 1 and a restricted flow through the pilot orifice from port 1 to 2. When the solenoid is energized the pilot poppet closes the orifice and the valve closes blocking flow from port 2 to 1 while allowing free flow from port 1 to 2.

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

Dating and and Consulting						
	c	and Specifications	Spacif	and	Patings	D

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	23 L/min (6 USgpm)				
Internal leakage	less than 5 drops/min, max @ 210 bar (3000 psi) with valve energized				
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	d flow) Energize: 24 ms. De-Energize: 25 ms				
Cavity	C-8-2				
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	0,28 kg (0.62 lbs)				
Seal kit	02-165875 (Buna-N), 02-165877 (Viton")				

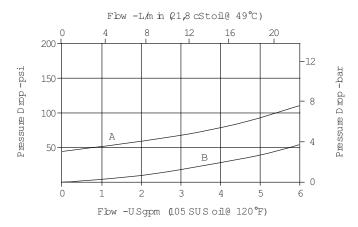
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way, 2-position, poppet type, pilot operated, normally open 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 energized

B - Port 2 to port 1 de-energized





SV5-8-O/OP/OS - Solenoid Valve

Poppet type, normally open solenoid valve 23 L/min (6 USgpm) • 210 bar (3000 psi)

Model Code

(F) - (A)8 00 8 9

Function SV5 - Solenoid valve

2 Size 8 - 8 size

3 Seal Material Blank - Buna-N ٧-Viton[®]

4 Style

O - Normally open

Manual Override Option Blank - No manual override P -Push type

S-Screw type

For valve dimensions with manual overrideoptioninstalledseepageA-980. 6 Filter Option

Blank - None

Filter screen

Valve Housing Material Omit for cartridge only

Port Size

Code	Port Size	Housing Number	
0	Cartridge only		
2G	1/4" BSPP	02-160727	
3G	3/8" BSPP	02-160728	
4T	SAE 4	02-160730	
6T	SAE 6	02-160731	
8T	SAE 8	02-160732	

See section J for housing details.

9 Voltage Rating

00 -No coil 12VDC 12D -24D -24VDC

36D -36VDC A - Aluminum

10 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 J-(DC only)

11 Coil Series

S - 8 series, 20 W

For coil part numbers and dimensions see section C.

12 | Special Features

00 - None

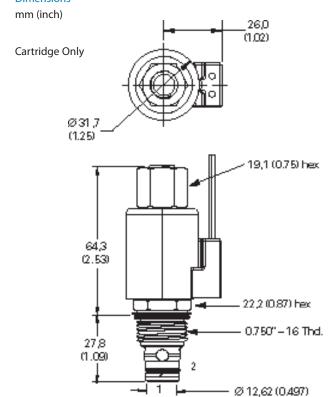
(Only required if valve has special features, omitted if "00".)

Note: When solenoid valve

is ordered as cartridge only,

coil nut is included.

Dimensions



Torque cartridge in aluminum

Installation Drawing

24A - 24VAC

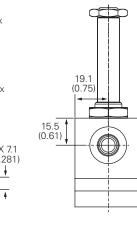
115A - 115VAC

230A - 230VAC

12B - 12VDC/w diode*

24B - 24VDC/w diode* *Optional arc suppression diode.

housing 34-41 Nm (25-30 ft lbs)



19.1 (0.75) Hex 64.3 (2.53) 19.1 22.22 (0.875) Hex (0.75)38.1 2X 7.1 (1.50)2 (0.281)50.8 (2.00)44.0 3.4 (1.73)(0.13)50.8 (2.00)

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

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



