Solenoid Valves
SV10-34-02

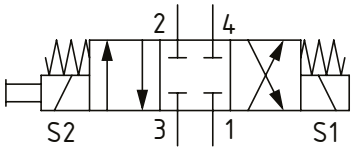
Solenoid Valve, 4-way, 3-position, Spool Type

230 bar [3300 psi] • 25 l/min [6.6 US gpm]

OPERATION AND DESCRIPTION

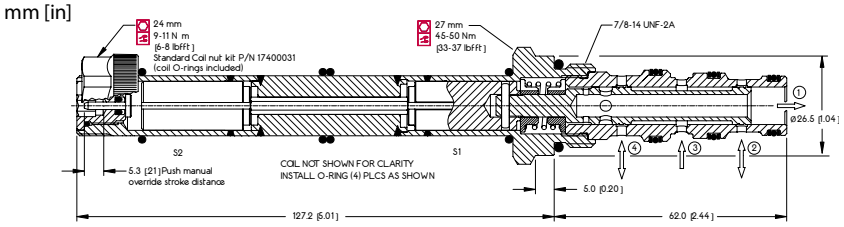
This is a 4-way, 3-position, spool type, direct acting solenoid valve. In the center condition, all ports are blocked. By energizing one coil, port 3 opens to 2 and port 4 to 1. When energizing the other coil, port 3 opens to 4 and port 2 to 1. This valve provides a directional control function with a neutral de-energized state (all ports blocked). It can be used in any hydraulic application where an actuator needs to be controlled in both directions. Always check the operating envelope to make sure the valve will work under the required application conditions. Port 1 is not intended for use as inlet (Tank only).

SCHEMATIC



DIMENSIONS

mm [in]



PERFORMANCE DATA

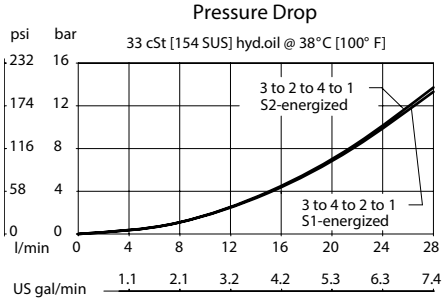
Rated Pressure*	**230 bar [3300 psi]****
Flow Capability	**25 l/min [6.6 US gpm]**
Coil Options	M16, R16
Weight	0.81 kg [1.79 lb]
Cavity	SDC10-4

*Rated Pressure based on NFPA fatigue test standards (at 1 million cycles)

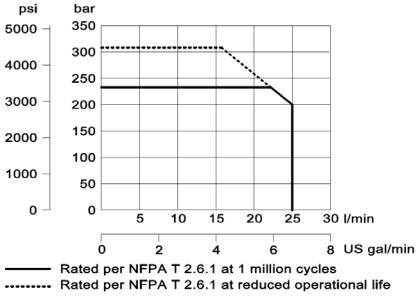
**Valve can operate with an inlet pressure of 315 bar [4600 psi] at port 3 for 400,000 cycles

PERFORMANCE CURVES

Pressure Drop



Operating envelope



MODEL CODE

SV10 - 34 - 02 - 12D - DE - PB - B - 6S

Coil Voltage

Standard Coil Code	Robust Coil Code	Coil Voltage
00	**R00**	No Coil, nut included*
10D	**R10D**	10 VDC
12D	**R12D**	12 VDC
20D	**R20D**	20 VDC
24D	**R24D**	24 VDC
110A		110 VAC**
220A		220 VAC**

*Standard Coil - Plastic coil nut and o-rings (p/n 17400031)
*Robust Coil - Steel coil nut and no o-rings (p/n 173804910)
**DIN only - external rectifier needed

Connector Type

Standard Coil Code	Robust Coil Code	Connector Type
00	**00**	No Coil
AJ		Amp Junior
AJD		Amp Junior with Diode
AS	**AS**	AMP SuperSeal 1.5
ASD	**ASDB***	AMP SuperSeal with Diode
DE	**DE**	Deutsch
DED	**DEDB***	Deutsch with Diode
FL	**FL**	Flying Leads
FLD	**FLDB***	Flying Leads with Diode
DN		DIN 43650

*Bi-directional diode

Housing

Code	Ports	Housing Model Code
00	No Housing	
6S	#6 SAE, AL	CP10-4-6S
8S	#8 SAE, AL	CP10-4-8S
S8S	#8 SAE, Steel	CP10-4-S8S
L3B	3/8 BSP, AL	SDC10-4-L3B
L4B	1/2 BSP, AL	SDC10-4-L4B
S4B	1/2 BSP, Steel	CP10-4-S4B

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].
* Additional housings available

Seal Option

Code	Seal kit
B-Buna - N	354001919
V-Viton	354002019

Manual Override Option

Omit-Push Pin
PB-Push Button
SPS-Screw Type
OPS-Protected Push Pin
PAT-Push and Twist
PAP-Push and Pull