

Solenoid Valves

SV09-23-02

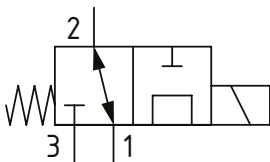
Solenoid Valve, 3-way, 2-position, Spool Type

100 bar [1450 psi] • 21 l/min [5.5 US gpm]

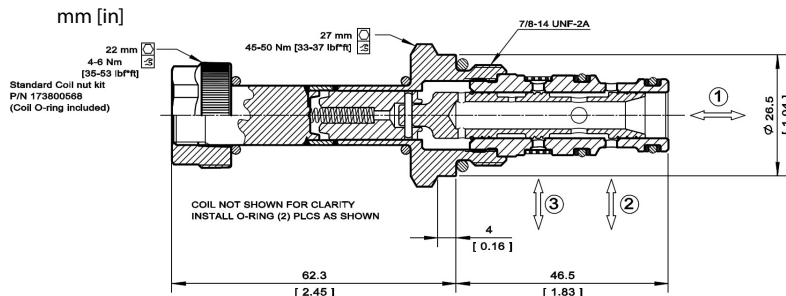
OPERATION AND DESCRIPTION

This is a 3-way, 2-position, spool type, direct acting solenoid valve. In the de-energized condition, port 1 is open to port 2 and port 3 is blocked. When energized, port 3 is open to port 1 and port 2 is blocked. These valves can be used in normally open, normally closed or selector modes. Always check the operating envelope to make sure the valve will work under the required application conditions. This valve is ideal for low pressure on-off control of single acting cylinders, clutches, and brake applications.

SCHEMATIC



DIMENSIONS



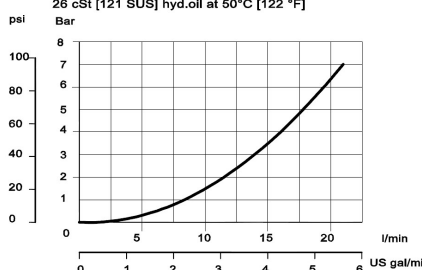
PERFORMANCE DATA

Rated Pressure*	100 bar [1450 psi]
Flow Capability	21 l/min [5.5 US gpm]
Leakage	20 ml/mln [1.22 In ³ /mln] at Rated Pressure
Coil Options	M13, R13
Weight	0.35 kg [0.78 lb]
Cavity	SDC10-3

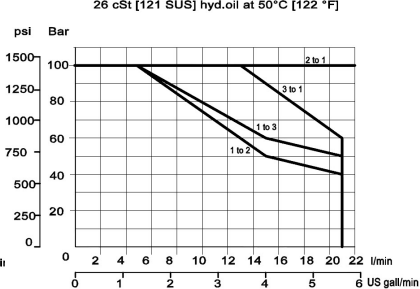
*Rated Pressure based on NFPA fatigue test standards (at 1 million cycles)

PERFORMANCE CURVES

Pressure drop
26 cSt [121 SUS] hyd.oil at 50°C [122 °F]



Operating envelope
26 cSt [121 SUS] hyd.oil at 50°C [122 °F]



MODEL CODE

SV09 - 23 - 02 - 12D - DE - B - F - 4S

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 173800588)

*Robust Coil - Steel coil nut and no o-rings (p/n 173800539)

**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	
4S	#4 SAE, AL	CP10-3-4S
6S	#6 SAE, AL	CP10-3-6S
SE2B	1/4 BSP, AL	SDC10-3-SE2B
SE3B	3/8 BSP, AL	SDC10-3-SE3B

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

* Additional housings available

Filter Option

Omit-No Filter
F-Filter 500 µm

Seal Option

Code	Seal kit
B-Buna - N	354004210
V-Viton	354003719