Solenoid Valves

SV10-24-06

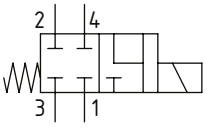
Solenoid Valve, 4-way, 2-position, Spool Type

230 bar [3300 psi] • 30 l/min [8 US gpm]

OPERATION AND DESCRIPTION

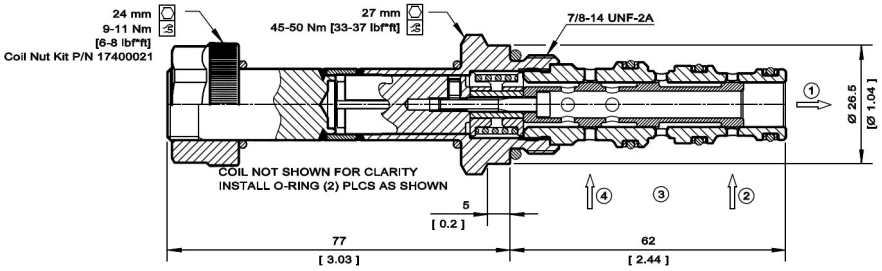
This is a 4-way, 2-position, spool type, direct acting solenoid valve. In the de-energized condition, all ports are blocked. When energized, port 3 and 4 are open to 1 and port 3 is blocked. These valves can be used to switch a motor into a free-wheeling mode or a cylinder into a float condition. Always 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]



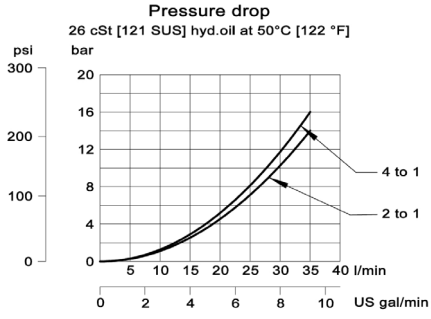
PERFORMANCE DATA

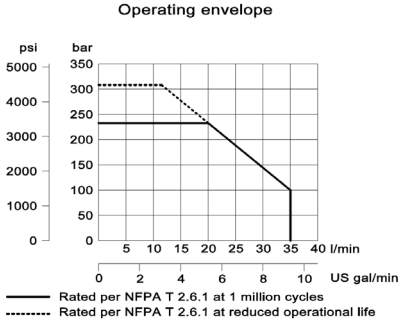
Rated Pressure*	**230 bar [3300 psi]****
Flow Capability	**30 l/min [8 US gpm]**
Coil Options	M16, R16
Weight	0.45 kg [1.0 lb]
Cavity	SDC10-4

*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





MODEL CODE

SV10 - 24 - 06 - 12D - DE - 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 17400021)
*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