Solenoid Valves

SV10-23-01

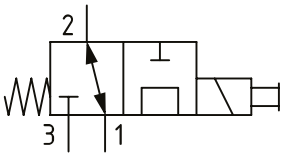
Solenoid Valve, 3-way, 2-position, Spool Type

230 bar [3300 psi] • 35 l/min [9 US gpm]

OPERATION AND DESCRIPTION

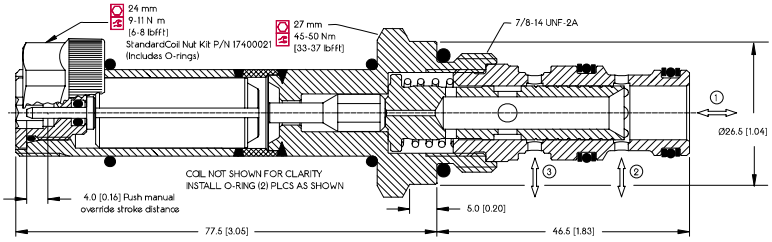
This is a 3-way, 2-position, spool type, direct acting solenoid valve. In the de-energized condition, port 1 is open to port 2 and port 3 is blocked. When energized, port 3 is open to port 1 and port 2 is blocked. These valves can be used in normally open, normally closed or selector modes. They come standard with a push pin manual override. Always check the operating envelope to make sure the valve will work under the required application conditions. An open spool transition option is available for this valve (check model code for details).

SCHEMATIC



DIMENSIONS

mm [in]



PERFORMANCE DATA

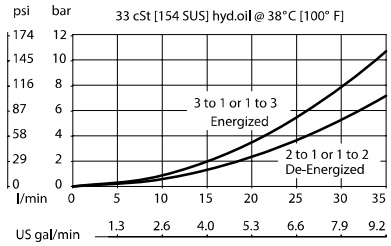
Rated Pressure*	**230 bar [3300 psi]****
Flow Capability	**35 l/min [9 US gpm]**
Coil Options	M16, R16
Weight	0.42 kg [0.93 lb]
Cavity	SDC10-3

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

**Valve can operate at 315 bar [4600 psi] for 400,000 cycles. With inlet at port 2, this can be increased to 600,000 cycles.

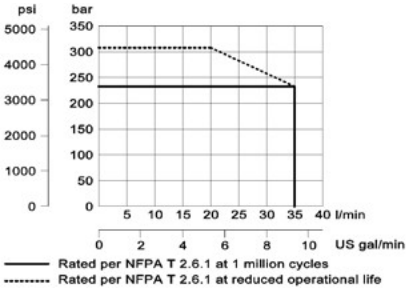
PERFORMANCE CURVES

Pressure drop



Note: Performance curves apply to the "-01" spool transition option only. For "-C01" performance curves, contact technical support.

Operating Evelope



MODEL CODE

SV10 - 23 - 01 - 12D - DE - PB - B - 6S

Spool Transition

01 - Zero overlap

C01 - Open

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

Manual Override

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

Seal Option

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

Housing

Code	Ports	Housing Model Code
00	No Housing	
6S	#6 SAE, AL	CP10-3-6S
8S	#8 SAE, AL	CP10-3-8S
S8S	#8 SAE, Steel	CP10-3-S8S
DG3B	3/8 BSP, AL	SDC10-3-DG3B
DG4B	1/2 BSP, AL	SDC10-3-DG4B
S4B	1/2 BSP, Steel	CP10-3-S4B

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