

# Solenoid Valves

## SV10-35-05

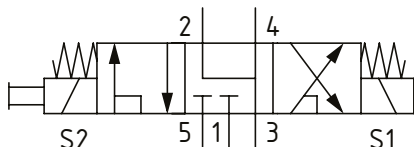
Solenoid Valve, 5-way, 3-position, Spool Type

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

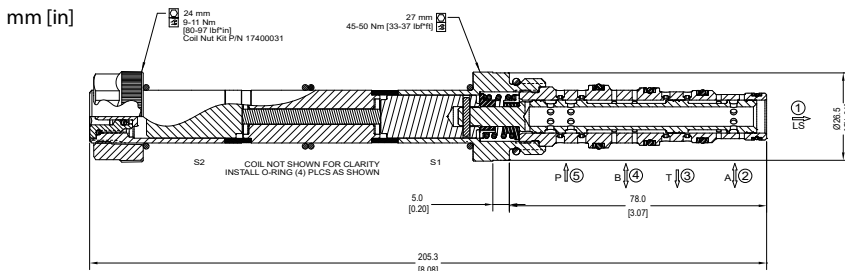
### OPERATION AND DESCRIPTION

This is a 5-way, 3-position, spool type, direct acting solenoid valve. In the center condition, ports 2 and 4 are connected to port 3, and port 5 and 1 are blocked. By energizing one coil, port 5 opens to 2 and 1 and port 4 to 3. When energizing the other coil, port 5 will be open to 4 and 1, port 2 connects to 3. This valve provides a directional control function with a neutral de-energized state with the service lines open to tank allowing pressure to decay. Port 5 and port 1, which is normally used as a load sense port, are closed. The valve can be used in any hydraulic application where an actuator needs to be controlled in both directions needing a load sense line to activate a pump controller. Always check the operating envelope to make sure the valve will work under the required application conditions.

### SCHEMATIC



### DIMENSIONS



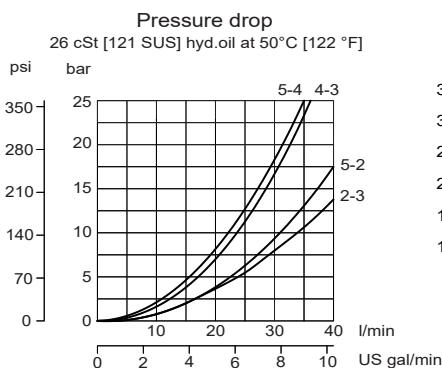
### PERFORMANCE DATA

Rated Pressure*	230 bar [3300 psi]**
Flow Capability	30 l/min [8 US gpm]
Coil Options	M16, R16
Weight	0.9 kg [1.98 lb]
Cavity	SDC10-5

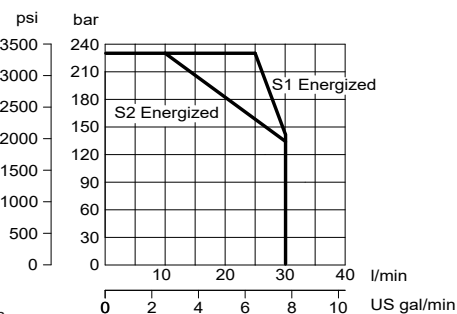
\*Rated Pressure based on NFPA fatigue test standards (at 1 million cycles)

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

### PERFORMANCE CURVES



### Operating envelope



### MODEL CODE

**SV10 - 35 - 05 - 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 & Material	Housing Model Code
00	No Housing	
6S	#6 SAE, AL	SDC10-5-6S
8S	#8 SAE, AL	SDC10-5-8S
S8S	#8 SAE, Steel	SDC10-5-S8S
L3B	3/8 BSP, AL	SDC10-5-L3B
L4B	1/2 BSP, AL	SDC10-5-L4B
S4B	1/2 BSP, Steel	SDC10-5-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	11192395
V-Viton	11192396

#### Manual Override Option

Omit-Push Pin

PB-Push Button

SPS-Screw Type

OPS-Protected Push Pin

PAP-Push and Pull\*

\*For PAP override, load sense pressure must be less than 150 bar