Solenoid Valves
SVP10-NOR

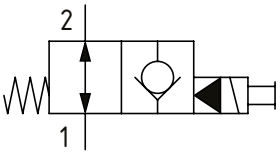
Solenoid Valve, 2-way, Poppet Type, Normally Open, Pilot Operated with Reverse Free Flow

230 bar [3300 psi] • 80 l/min [21 US gpm]

OPERATION AND DESCRIPTION

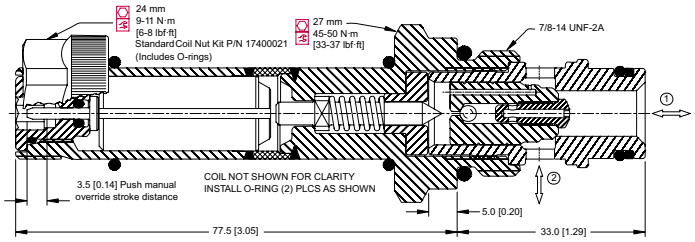
This is a 2-way, 2-position, poppet type, pilot operated, normally open solenoid valve. When de-energized, flow can take place from port 2 to 1 and from 1 to 2. In its energized condition, flow can take place from port 1 to 2 but is blocked in the other direction. Leakage is kept to a minimum due to the poppet design. Some models have the option of a filter around port 2, and these come standard with a push pin manual override. These valves can be used to hold loads in position when energized, interrupt a pressure line where flow normally passes in both directions, or bypass excess oil to tank in a fail-safe way.

SCHEMATIC



DIMENSIONS

mm [in]



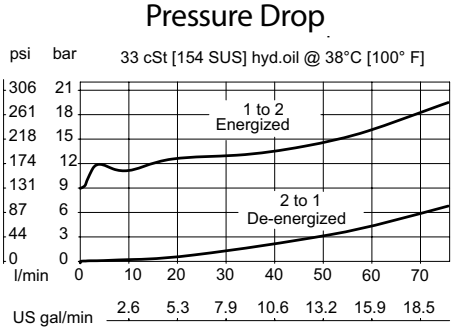
PERFORMANCE DATA

Rated Pressure*	**230 bar [3300 psi]****
Rated flow	**80 l/min [21 US gpm]**
Leakage	6 drops/min @ Rated Pressure
Coil Options	M16, R16
Weight	0.43 kg [0.95 lb]
Cavity	SDC10-2

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

**Valve can operate at 315 bar [4600 psi] on port 2 for 300,000 cycles.

PERFORMANCE CURVES



MODEL CODE

SVP10 - NOR - 12D - DE - PB - B - F - 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	CP10-2-6S
8S	#8 SAE, AL	CP10-2-8S
S8S	#8 SAE, Steel	CP10-2-S8S
DG3B	3/8 BSP, AL	SDC10-2-DG3B
DG4B	1/2 BSP, AL	SDC10-2-DG4B
S4B	1/2 BSP, Steel	CP10-2-S4B

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

Filter Option

Omit - No filter
F - Filter 300 µm

Seal Option

Code	Seal kit
B-Buna - N	354000719
V-Viton	354000819

Manual Override Option

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