Solenoid Valves Technical Information
2-Way Poppet
SVP16-NC

OPERATION
This is a normally-closed, pilot-operated, poppet-style 16-size solenoid valve. When de-energized, the SVP16-NC acts as a check valve allowing flow from port 1 to port 2, and blocking flow from port 2 to port 1 . When energized, the valve's poppet is shifted and allows flow from port 2 to port 1, and severely restricts from port 1 to port 2.



Shown with Robust Coil, Deutsch Connector

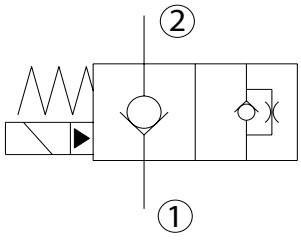
APPLICATIONS
The SVP16-NC is designed to function as load holding or blocking valve in applications where low internal leakage is required. In load holding applications, the circuit should be designed so that the de-energized state is the position that is holding the load. This solenoid valve is a technical replacement for CP502-1.

SPECIFICATIONS

Rated pressure*	230 bar [3300 psi]*
Rated flow at 7 bar [100 psi]	152 l/min [40 US gal/min]
Leakage	6 drops/min @ Rated pressure
Weight	.75 kg [1.6 lb]
Cavity	**SDC16-2**
Standard Coil	**M16** 26 Watt
Robust Coil	**R16** 20 Watt Robust Nut P/N **173804910** (no coil O-rings needed)

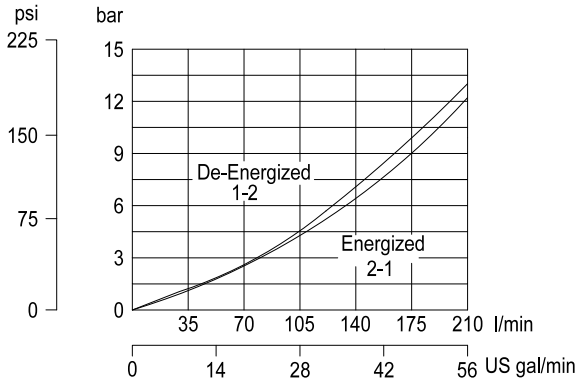
* Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC



PERFORMANCE CURVES

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

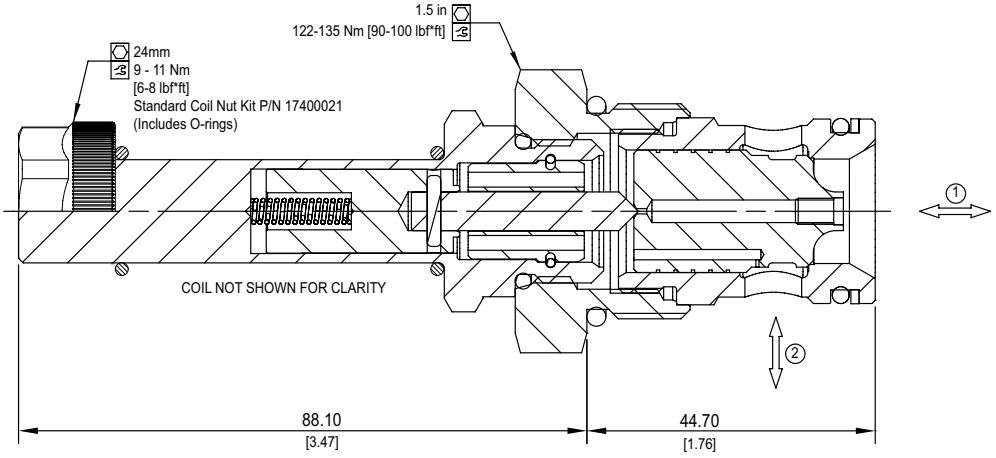


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DIMENSIONS

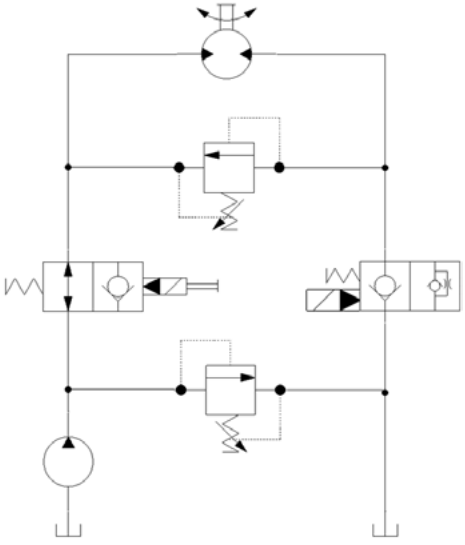
mm [in]

Cross-sectional view



EXAMPLE CIRCUITS

On/Off Motor Circuit



ORDERING INFORMATION

SVP16 - NC - 12D - DE - XC - B - 00

Solenoid Valve
Normally-Closed, Pilot Operated,
16 Size, Poppet Type

Coil Voltage

Description	Standard Coil Code	Robust Coil Code
No Coil, with nut*	00	R00
10 VDC	10D	R10D
12 VDC	12D	R12D
20 VDC	20D	R20D
24 VDC	24D	R24D
110 VAC**	110A	-
220 VAC**	220A	-

*Standard coil - plastic nut and O-rings
R-coil -- steel nut P/N 173804910
(no coil O-rings needed)
**DIN only - external rectifier needed

Coil Termination

Type	Standard Coil Code	IP Rating	Robust Coil Code	IP Rating
No Coil	00	-	R00	-
Amp Junior	AJ	IP67	-	-
Amp Junior with Diode	AJD	IP67	-	-
AMP SuperSeal 1.5	AS	IP67	AS	IP69K
AMP SuperSeal with Diode	ASD	IP67	ASDB	IP69K
Deutsch	DE	IP69K	DE	IP69K
Desutch with Diode	DED	IP69K	DEDB	IP69K
Flying Leads	FL	IP65	FL	IP69K
Flying Leads with Diode	FLD	IP65	FLDB	IP69K
DIN 43650	DN	IP65	-	-
Metri-Pack 150 Type 2	-	-	M3	IP69K
Metri-Pack 150 with Diode	-	-	M3DB	IP69K

Bodies

Code	Ports & Material	Body Nomenclature
00	Cartridge Only	No Body
12S	#12 SAE, AL	SCD16-2-12S
S12S	#12 SAE, DUCTILE	SDC16-2-S12S
16S	#16 SAE, AL	SDC16-2-16S
S16S	#16 SAE, DUCTILE	SDC16-2-S16S
6B	3/4 BSP, AL	SDC16-2-6B
S6B	3/4 BSP, DUCTILE	SDC16-2-S6B
8B	1 BSP, AL	SDC16-2-8B
S8B	1 BSP, DUCTILE	SDC16-2-S8B

**Aluminum bodies are to be used for pressures less than 210 bar (3,000 PSI)

Seal Option

Code	Material	Seal Kits
B	Buna	120019
V	Viton	120020

Manual Override

Code	Description
XC	No Override