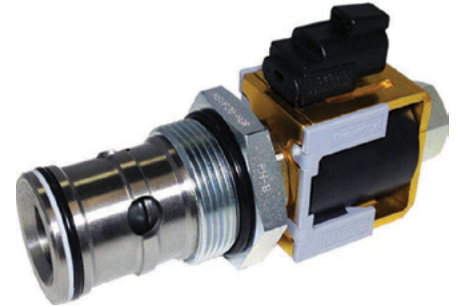


OPERATION

This is a normally open, pilot-operated, poppet-type 20-size solenoid valve. When de-energized, the SVP20-NO severely restricts flow from port 1 to port 2, while allowing flow from port 2 to 1. When energized, the valve's poppet is shifted to block flow from port 2 to port 1, and allow reverse flow between port 1 to port 2 at a high pressure drop. This valve comes standard with a push pin type manual override.



Shown with Robust Coil, Deutsch Connector

APPLICATIONS

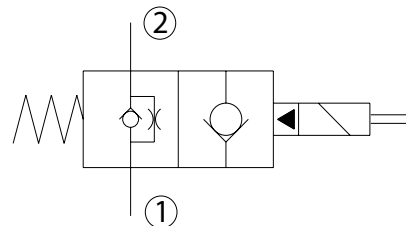
This valve is designed for use for uni-directional blocking, load holding, clamping or gripping applications in hydraulic circuits where low internal leakage is required. This solenoid valve is a technical replacement for CP503-2.

SPECIFICATIONS

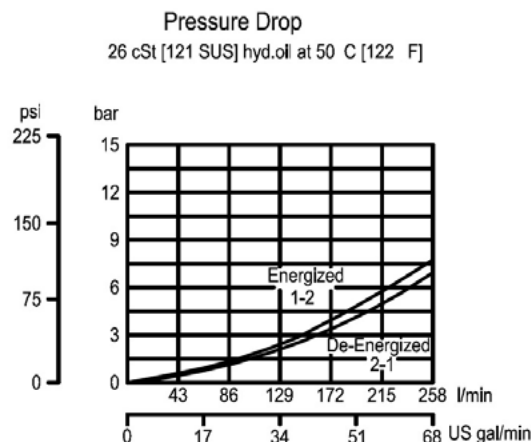
Rated pressure*	230 bar [3300 psi]*
Rated flow at 7 bar [100 psi]	265 l/min [70 US gal/min]
Leakage	6 drops/min @ Rated pressure
Weight	1.04 kg [2.29 lb]
Cavity	SDC20-2
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt Robust Nut P/N 173804910 (no coil O-rings needed)

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

SCHEMATIC



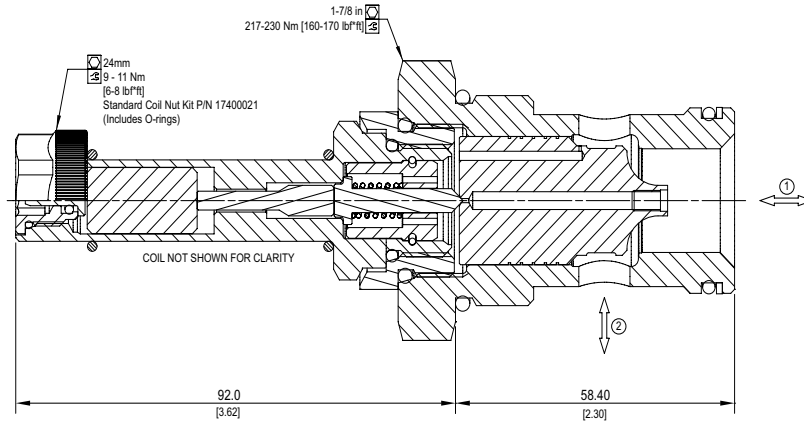
PERFORMANCE CURVES



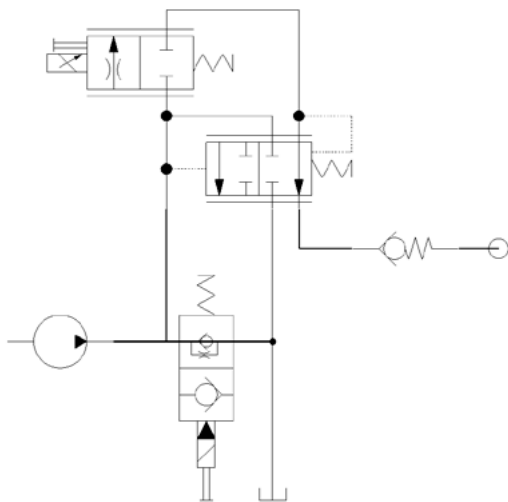
DIMENSIONS

mm [in]

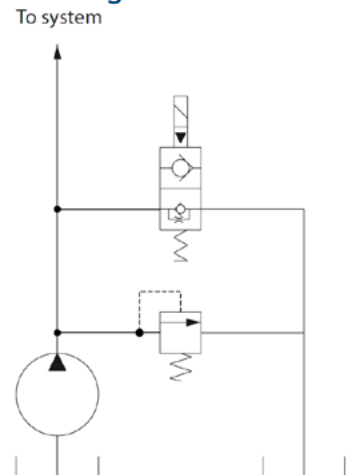
Cross-sectional view



EXAMPLE CIRCUITS



Pump unloading



ORDERING INFORMATION

SVP20 - NO - 12D - DE - PN - B - 00

Solenoid Valve
Normally-Open, Pilot Operated,
20 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
16S	#16 SAE, AL	SCD20-2-16S
S16S	#16 SAE, DUCTILE	SDC20-2-S16S
20S	#20 SAE, AL	SDC20-2-6B
S20S	#20 SAE, DUCTILE	SDC20-2-S6B
8B	1 BSP, AL	SDC20-2-8B
S8B	1 BSP, DUCTILE	SDC20-2-S8B
10B	1 1/4 BSP, AL	SDC20-2-10B
S10B	1 1/4 BSP, DUCTILE	SDC20-2-S10B

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

Seal Option

Code	Material	Seal Kits
B	Buna	120011
V	Viton	120012

Manual Override

Code	Description
PN	Push Pin
OPS	Push Pin Override with Nut for Protection & Actuation
SPS	Screw Style