Solenoid Valves Technical Information

2-Way Poppet

HSVP12-NOR

OPERATION

This is a normally-open, pilot-operated, poppet-type 12-size solenoid valve with free reverse flow. When de-energized the valve allows flow from port 1 to 2 and from port 2 to 1. When energized, the pilot poppet closes allowing the valve to act as a check valve flowing from port 1 to port 2, while blocking flow from port 2 to 1. This valve comes standard with a push pin type manual override.



Shown with Standard H16 Coil, Deutsch Connector

APPLICATIONS

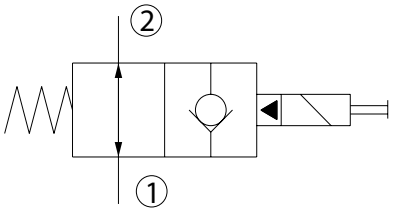
This is a low leakage valve designed for use in load holding applications or as a general purpose diverter or dump valve.

SPECIFICATIONS

Rated pressure*	350 bar [5075 psi]*
Rated flow at 7 bar [100 psi]	114 l/min [30 US gal/min]
Leakage	6 drops/min @ Rated pressure
Weight	0.67 kg [1.47 lb]
Cavity	**CP12-2**
Standard Coil	**H16** 29 Watt

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

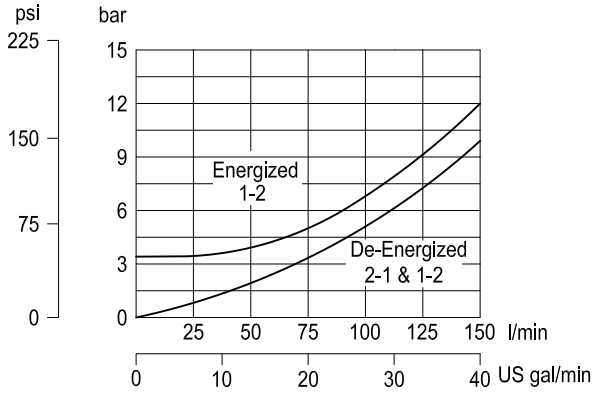
SCHEMATIC



PERFORMANCE CURVES

Pressure drop

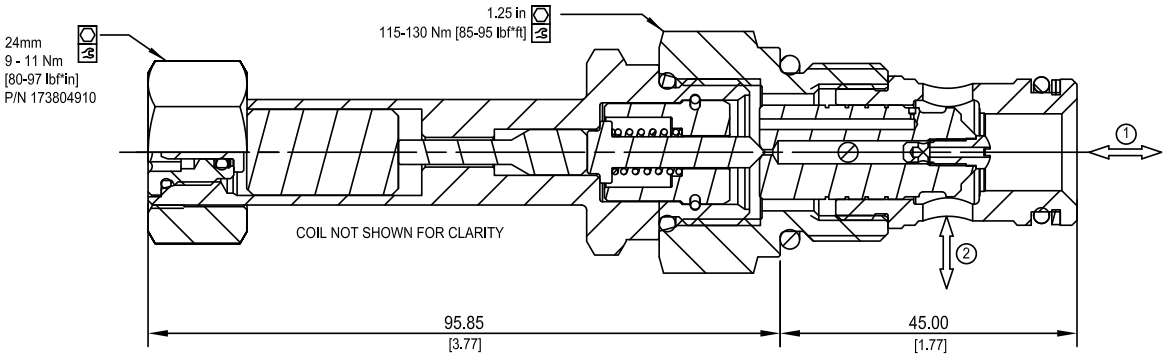
26 cSt [121 SUS] hyd.oil at 50C [122F]



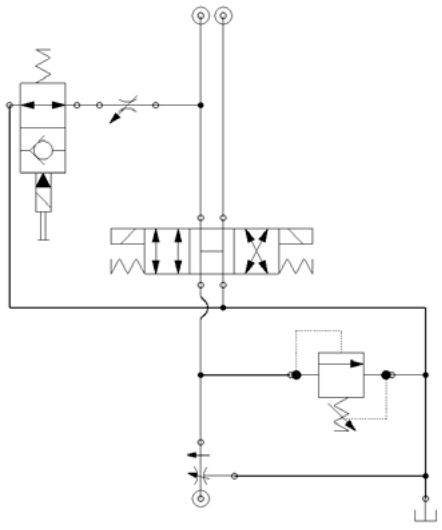
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DIMENSIONS
mm [in]

Cross-sectional view



EXAMPLE CIRCUITS



ORDERING INFORMATION

HSVP12 - NOR - H12D - DE - PN - B - 00

High Pressure Solenoid Valve
Normally-Open, Pilot Operated,
Free Reverse Flow, 12 Size,
Poppet Type

Coil Voltage

Code	Description
H00	No Coil
H12D	12 VDC
H24D	24 VDC

Coil Termination

Code	Description	IP Rating
00	No Coil	-
FL	Flying Lead	IP69K
DE	Deutsch	IP69K
AS	AMP Super Seal 1.5 & Metri Pack 150 type 1	IP69K
ASDB	AMP Super Seal with Diode Bidirectional	IP69K
DEDB	Deutsch with Diode Bidirectional	IP69K
FLDB	Flying Lead with Diode Bidirectional	IP69K

Bodies

Code	Ports & Material	Body Nomenclature
00	Cartridge Only	No Body
10S	#10 SAE, AL	CP12-2-10S
S10S	#10 SAE, DUCTILE	CP12-2-S10S
12S	#12 SAE, AL	CP12-2-12S
S12S	#12 SAE, DUCTILE	CP12-2-S12S
4B	1/2 BSP, AL	CP12-2-4B
S4B	1/2 BSP,DUCTILE	CP12-2-S4B
6B	3/4 BSP, AL	CP12-2-6B
S6B	3/4 BSP, DUCTILE	CP12-2-S6B

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

Seal Option

Code	Seal Material	Seal Kit
B	Buna	120017
V	Viton	120018

Manual Overrides

Code	Description
PN	Push Pin
OPS	Push Pin M/O Nut for Protection & Actuation
PAT	Push and Twist