



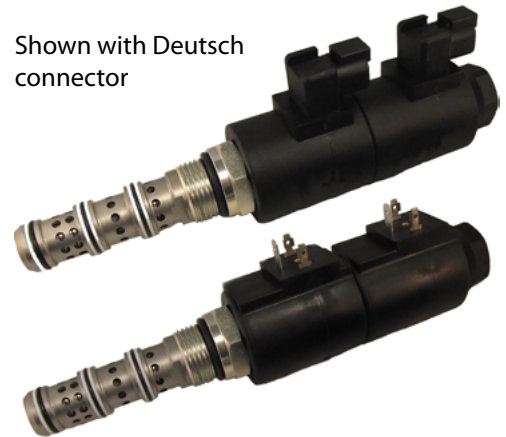
OPERATION

This is a proportional, non-compensated, 3 position 4 way, directional flow control solenoid valve, with float-center spool.

APPLICATIONS

These cartridge valves are typically applied to provide bi-directional, proportional control of hydraulic cylinders and motors. In applications requiring load-holding, PO checks or counterbalance valves can be added to provide a low leakage solution. For load-independent flow control, apply with a pressure compensator, such as HLE10-OPO (see Example Circuit). Port 1 should be used as the tank port, with a maximum back-pressure of 150 bar. For applications with unequal flows, the highest flow should be connected to Port 2.

Note: For optimal performance install with the solenoid valve below the tank oil level in the horizontal position, reducing the chance for trapped air in the valve.



Shown with Deutsch connector

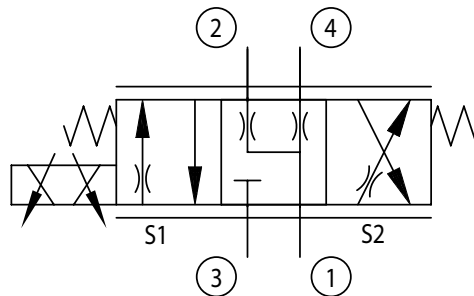
Shown with DIN connector

SPECIFICATIONS

Rated Pressure*	260 bar [3770 psi]
Maximum Rated Flow at 10 bar [145 psi]	60 l/min [16 US gal/min]
Weight including coil	1.2 kg [2.64 lbs]
Hysteresis	4% maximum
Threshold current	0.5 A (12 VDC coil) 0.25 A (24 VDC coil)
Maximum control current	1.8 A (12 VDC coil) 0.9 A (24 VDC coil)
Cavity	CP12-4
Standard Coil	M19 33 Watt

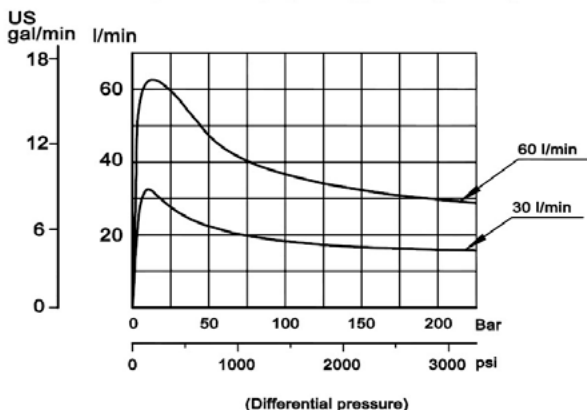
* Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC



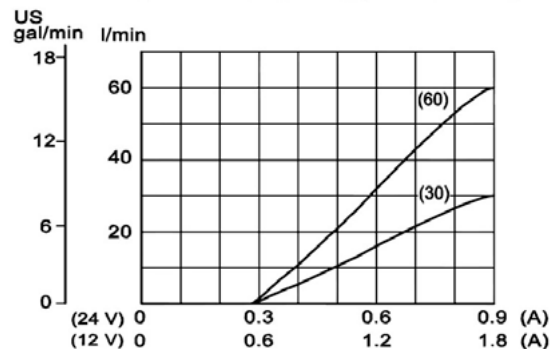
THEORETICAL PERFORMANCE

Pressure compensation from Inlet to work port at Max current.
26 cSt [121 SUS] hyd.oil@50°C [122°F]



Operating curves with M19 coil and nut.

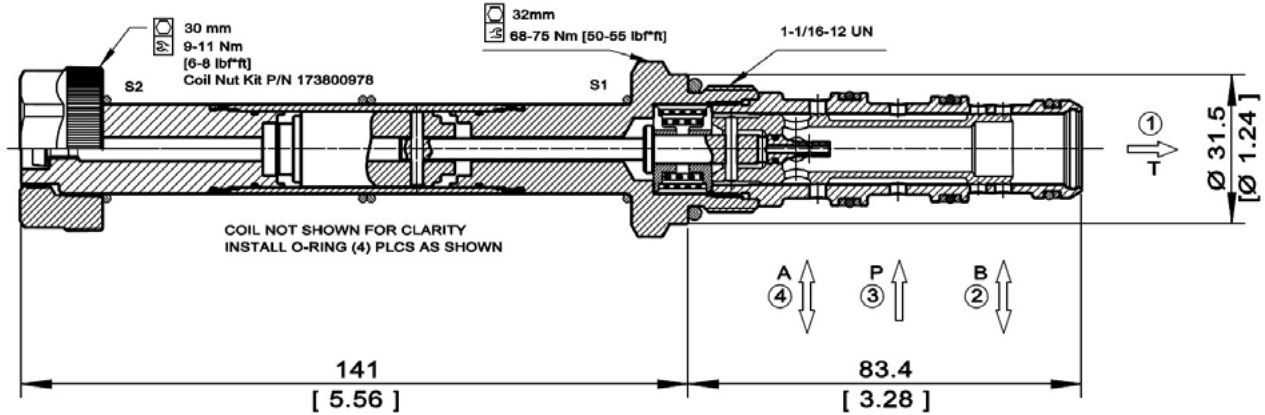
Curves made with a logic element set at 10 Bar.
26 cSt [121 SUS] hyd.oil@50°C [122°F]



DIMENSIONS

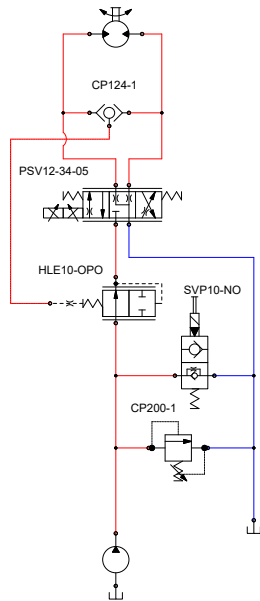
mm [in]

Cross-sectional view

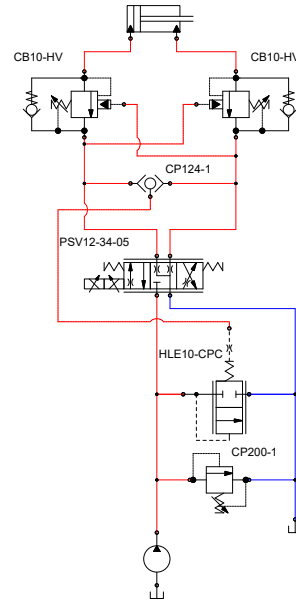


EXAMPLE CIRCUITS

Pressure Compensated Bi-directional Proportional Motor Control



Double Acting Cylinder with Proportional Speed Control



ORDERING INFORMATION

PSV 12 - 34 - 05 - 60 - 12D - DE - B - 00

