

Proportional Valves

PSV12-NC



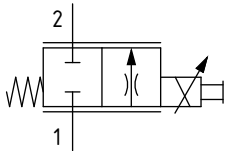
Proportional Flow Control Valve, Spool Type, Normally Closed, Direct Acting, Non-Compensated

260 bar [3800 psi] • 80 l/min [21 US gpm]

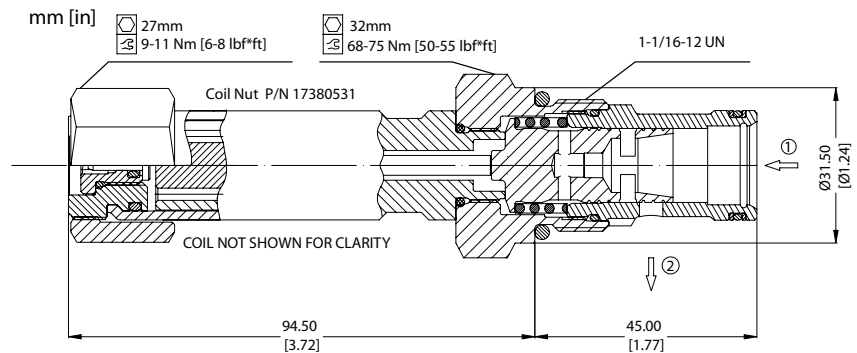
DESCRIPTION AND OPERATION

This is a 2-way, spool type, normally closed, non-compensated proportional flow control valve. In the de-energized condition, flow is blocked in both directions. Energizing the coil will proportionally open port 1 to 2. Used in conjunction with a compensator, the valve will act as the control orifice for a pressure compensated flow regulator.

SCHEMATIC



DIMENSIONS

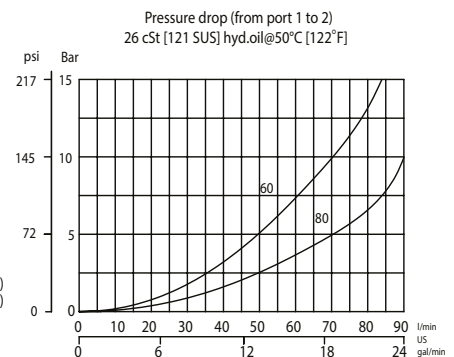
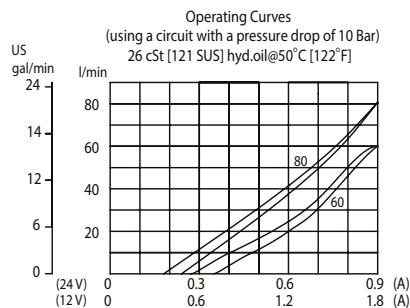


PERFORMANCE DATA

Rated pressure*	260 bar [3800 psi]
Rated flow @ 10 bar [145 psi]	80 l/min [21 US gpm]
Leakage	420 ml/min [25.6 in ³ /min] @rated pressure
Maximum Hysteresis	5%
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]
Coil Options	D14E [35 Watt]
Weight	0.76 kg [1.68 lb]
Cavity	SDC12-2

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

PERFORMANCE CURVES



MODEL CODE

PSV12- NC - 80 - 12D - DE - SPS - B - 00

Rated Flow @ 10 bar [145 psi]

Code	Flow
60	60 l/min [16 US gpm]
80	80 l/min [21 US gpm]

Coil Voltage

00 - No coil, nut included
12D - 12 VDC
24D - 24 VDC

*Aluminum coil nut (p/n 17380531)

Connector Type

00 - No coil
AJ - AMP Junior
DE - Deutsch
DN - DIN 43650

Manual Override Option

Omit - Push Pin
SPS - Screw Type

Housing

Code	Ports & Material	Housing Model Code
00	No Housing	
10S	AL, #6 SAE	CP12-2-10S
12S	AL, #8 SAE	CP12-2-12S
DG4B	AL, 1/2 BSP	SDC12-2-DG4B
DG6B	AL, 3/4 BSP	SDC12-2-DG6B

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

* Additional housings available

Seal Option

Code	Seal kit
B - Buna - N	354008319
V - Viton	354008419