

Proportional Valves

PSV10-NO



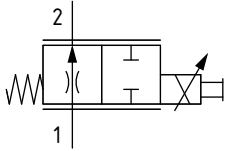
Proportional Flow Control Valve, Spool Type, Normally Open, Direct Acting, Non-Compensated

260 bar [3800 psi] • 45 l/min [12 US gpm]

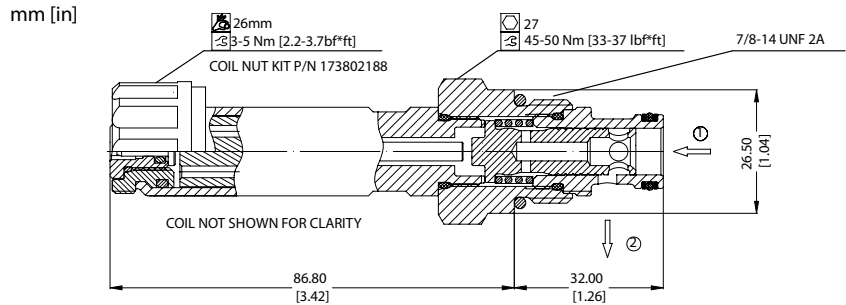
DESCRIPTION AND OPERATION

This is a 2-way, spool type, normally open, non-compensated proportional flow control valve. In the de-energized condition, flow can pass in either direction. Energizing the coil will proportionally close 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

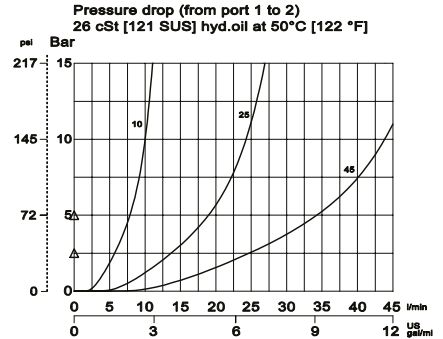
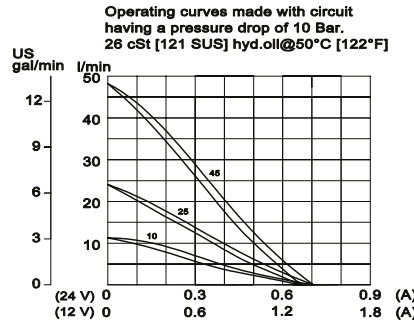


PERFORMANCE DATA

Rated pressure*	260 bar [3800 psi]
Rated flow @ 10 bar [145 psi]	45 l/min [12 US gpm]
Leakage	420 ml/min [25.6 in ³ /min] @ rated pressure
Maximum Hysteresis	5%
Threshold current	0.1 A [12 VDC coil] 0.05 A [24 VDC coil]
Maximum control current	1.8 A [12 VDC coil] 0.9 A [24 VDC coil]
Coil Options	M19P
Weight	0.51 kg [1.12 lb]
Cavity	SDC10-2

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

PERFORMANCE CURVES



MODEL CODE

PSV10 - NO - 45 - 12D - DE - SPS - B - 6S

Rated Flow at 10 bar [145 psi]

Code	Flow
10	10 l/min [2.6 US gpm]
25	25 l/min [6.6 US gpm]
45	45 l/min [12 US gpm]

Coil Voltage

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

*Standard Coil - Plastic coil nut and o-rings (p/n 173802188)

Connector Type

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

Manual Override Option

0omit - Push Pin
SPS - Screw Type

Housing

Code	Ports & Material	Housing Model Code
0omit	No housing	
6S	AL, #6 SAE	CP10-2-6S
8S	AL, #8 SAE	CP10-2-8S
DG3B	AL, 3/8 BSP	SDC10-2-DG3B
DG4B	AL, 1/2 BSP	SDC10-2-DG4B

* 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	354000401
V - Viton	354000341