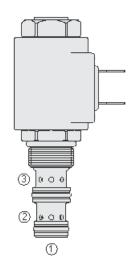


Overview



Description

The PV08-30 is a solenoid operated, pressure compensated, spool type, normally closed, priority type proportional flow control regulator. It also CAN be used as a restrictive type, 2-way, pressure compensated proportional flow regulator (with port 2 blocked).

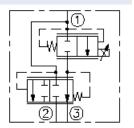
Operation

With inlet flow at port 1 the valve will regulate priority flow out of port 3 regardless of system working pressure with flow rate proportional to current applied to the solenoid. The excessive flow will bypass out of port 2. The bypass flow CAN be used for auxiliary function control. Note: avoid dead heading of priority line by external valving to prevent blocking of bypass line. In restrictive mode applications bypass port 2 has to be blocked, flow rate out of port 3 remains proportional to current applied to the solenoid regardless of load (pressure) applied to port 3.

Features

- · Excellent linearity and hysteresis characteristics.
- · Hardened spool and cage for long life.
- · Optional coil voltages and terminations.
- · Efficient wet-armature construction.

Symbol



2-Ported:



Ratings

241 bar (3500 psi) - Note: Inlet Pressure rating 207 bar (3000 psi) - Note: Regulated and bypass Proof pressure 345 bar (5000 psi) 896 bar (13000 psi) Burst pressure

Flow Ratings 11.4 lpm (3.0 gpm) - Note: Flow range a, regulated, 2-ported Flow rating 11.4 lpm (3.0 gpm) - Note: Flow range a, regulated, 3-ported Note: Flow range b, regulated, 2-ported
Note: Flow range b, regulated, 3-ported 5.7 lpm (1.5 gpm) 5.7 lpm (1.5 gpm) 15.2 lpm (4.0 gpm) - Note: Flow range a, input nominal, 3-ported 7.6 lpm (2.0 gpm) - Note: Flow range b, input nominal, 3-ported 22.8 lpm (6.0 gpm) - Note: Flow range a, input maximum, 3-ported 22.8 lpm (6.0 gpm) - Note: Flow range b, input maximum, 3-ported 197 ml/min (12 in³/min) current 207 bar (3000 psi) Note: At port 3 with at port 1 (port 2 closed) at 0 Maximum internal leakage ±0.9 lpm (±0.25 gpm) - Note: Maximum Hysteresis

Temperature Ratings

-40 to 100 °C (-40 to 212 °F) - Note: With buna N seals Operating fluid temperature -26 to 204 °C (-15 to 400 °F) - Note: With fluorocarbon seals -40 to 70 °C (-40 to 160 °F) Storage temperature -40 to 70 °C (-40 to 160 °F) Ambient temperature

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NORMALLY CLOSED PRESSURE COMPENSATED PROPORTIONAL FLOW **REGULATOR**



Operating Parameters

Mineral based or synthetic hydraulic fluid with lubricating properties Fluids

7.4 to 420 cSt Fluid viscosity range

Maximum operating contamination 20/18/14 per ISO 4406 (reference all sheets)

level

Electrical Parameters

(With EHPR08 E-series and D-series coil) Note

1400 ±150 mA - Note: 12 V coil Maximum control current 700 ±75 mA - Note: 24 V coil

400 ±100 mA - Note: 12 V coil Threshhold current 200 ±50 mA - Note: 24 V coil

100 to 200 Hz Dither PWM frequency

Properties

- Note: PV08-30A/30B Cartridge weight 0.15 kg (0.33 lb) - Note: PV08-30AM/30BM 0.20 kg (0.45 lb)

0.27 kg (0.59 lb) - Note: PV08-30AG/30BG

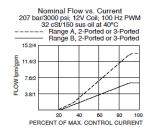
155 cm² (24.1 in²) 152 cm² (23.6 in²) Internal wetted surface area - Note: PV08-30AM/30AG/30BM/30BG

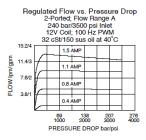
- Note: PV08-30A/30B

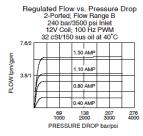
Environmental

960 hr salt spray per ASTM B117 - Note: GPV08-30XX Corrosion protection

Performance



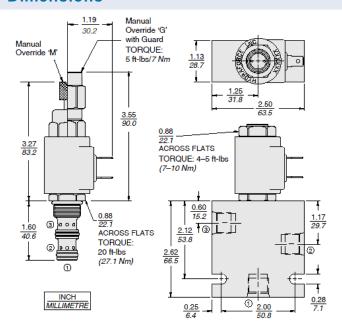




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Dimensions



Installation Specifications

Cavity VC08-3

Cartridge installation torque 25.8 to 28.5 N-m (19 to 21 ft-lb

Maximum allowable torque 47.5 N-m (35 ft-lb)

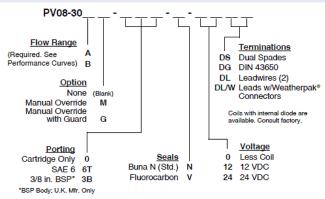
Coil nut torque 6.8 to 9.5 N-m (5 to 7 ft-lb) - Note: Coil nut and guard nut

Orientation restriction None

Accessories

Seal kit SK08-3X-MM - Note: X = seal option

Order Code



Model Options

PV08-30DE-H-J-L

D Max Regulated Flow

CODE	DESCRIPTION
Α	11.4 lpm (3.0 gpm) Max Regulated Flow
В	5.7 lpm (1.5 gpm) Max Regulated Flow

E Manual Override

CODE	DESCRIPTION
BLANK	NONE

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NORMALLY CLOSED PRESSURE COMPENSATED PROPORTIONAL FLOW REGULATOR



CODE	DESCRIPTION	
G	Variable Position Override, Red Knurled Knob with Cover Cap	
М	Variable Position Override, Red Knurled Knob	

H Line Body

CODE	DESCRIPTION
0	No Body
4T	Aluminum SAE 4
6T	Aluminum SAE 6
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
3B	Aluminum BSPP 3/8" (3)
3BD	Ductile Iron BSPP 3/8" (3)

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
Р	Polyurethane
U	PPDI Urethane

L Coil

CODE	DESCRIPTION
0	No Coil
12DG	12 VDC, D-Coil, DIN 43650
12ER	12 VDC, E-Coil, Deutsch
12EY	12 VDC, E-Coil, Metri-Pack 150
24DG	24 VDC, D-Coil, DIN 43650
24DL	24 VDC, D-Coil, Dual Lead Wires
24DS	24 VDC, D-Coil, Dual Spade
24ER	24 VDC, E-Coil, Deutsch

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