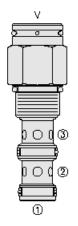


Overview



Description

The PD12-30 is a screw-in, cartridge style, pilot-operated, spool type, normally open, hydraulic directional valve.

Operation

In neutral position the valve allows flow from port 3 to 2 bi-directionally. The spring chamber is vented to atmosphere "v" which is internally o-ring sealed from the cartridge flow paths. On remote pilot signal at port 1, the valve's spool shifts to block flow from port 3 to 2 while port 2 is blocked. Because of the vented spring chamber, the cartridge may be fully pressurized at any port without affecting required pilot pressure.

Features

- Hardened spool and cage for long life.
- · Cost-effective cavity.

Symbol



Ratings

Pressure Ratings

241 bar (3500 psi) Pressure rating

Temperature Ratings

-40 to 120 °C (-40 to 248 °F) Operating fluid temperature

Flow Ratings

245 ml/min (15 in³/min) - N piloted), at 207 bar (3000 psi) - Note: From port 1 to 2 and from port 2 to 3 (when Maximum internal leakage

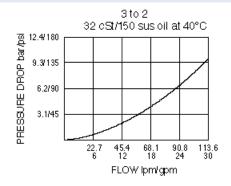
0 lpm (0 gpm) - Note: From port 1 and 2 with sealed spool

Properties

steel with work surfaces hardened. External surfaces are zinc plated Materials

0.23 kg (0.50 lb) Unit weight

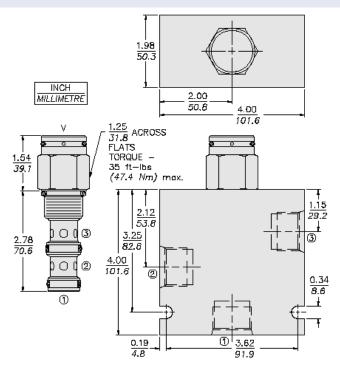
Performance



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Dimensions



Installation Specifications

Cavity VC12-3

Cartridge installation torque 44.7 to 50.2 N-m (33 to 37 ft-lb)

Accessories

Seal kit SK12-3N-MM - Note: Buna N

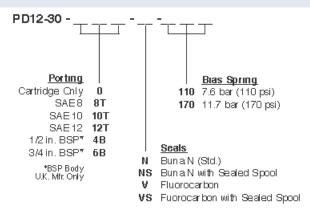
SK12-3V-MM - Note: Viton

SK12-3P-MM - Note: Polyurethane

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Order Code



Model Options

PD12-30-H-J-R

H Line Body

CODE	DESCRIPTION
0	No Body
8T	Aluminum SAE 8
10T	Aluminum SAE 10
12T	Aluminum SAE 12
12TD	Ductile Iron SAE 12

J Seal

CODE	DESCRIPTION
N	Buna-N
NS	Buna-N with a Sealed Spool
V	Fluorocarbon
VS	Fluorocarbon with a Sealed Spool
Р	Polyurethane
PS	Polyurethane with a Sealed Spool
U	PPDI Urethane
US	PPDI Urethane with a Sealed Spool

R Spring

CODE	DESCRIPTION
110	110 psi Bias Spring
170	170 psi Bias Spring

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