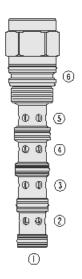


Overview



Description

The PD16-S61N is a screw-in, cartridge style, pilot operated, spool-type, hydraulic directional valve.

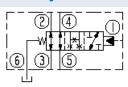
Operation

In the neutral position flow is allowed between ports 2 and 3 and between ports 4 and 5. On remote pilot signal at port 1 the valve's spool shifts to allow flow between ports 3 and 4, while blocking ports 2 and 5. The spring chamber is vented to the tank through port 6. The vented spring chamber allows the valve to be fully pressurized at ports 1, 2, 3, 4, and 5 without affecting required pilot pressure. Pressure at port 6 will affect required pilot pressure.

Features

- · Hardened spool and cage for long life.
- o 60, 110 and 170 psi bias springs available.

Symbol



Ratings

Pressure Ratings

Pressure rating 240 bar (3500 psi)

Flow Ratings

Flow rating See performance graph

Maximum internal leakage 164 ml/min (10 in³/min) - Note: At 207 bar (3000 psi)

Temperature Ratings

Operating fluid temperature
-40 to 100 °C (-40 to 212 °F)
-26 to 204 °C (-15 to 400 °F)
-54 to 107 °C (-65 to 225 °F)

-40 to 100 °C (-40 to 212 °F)
-54 to 107 °C (-65 to 225 °F)

-50 to 100 °C (-40 to 212 °F)
-50 to 200 °C (-40 to 212 °F)

Storage temperature -40 to 70 °C (-40 to 160 °F) Ambient temperature -40 to 90 °C (-40 to 194 °F)

Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination 20/18/14 per ISO 4406

level

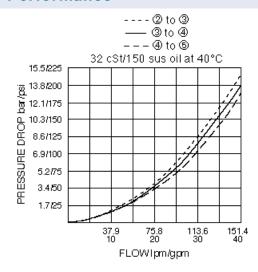
Properties

Unit weight 0.74 kg (1.62 lb)
Internal wetted surface area 528 cm² (81.86 in²)

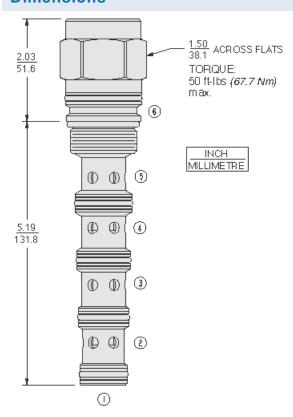
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Performance



Dimensions



Installation Specifications

Cavity VC16-S6

Cartridge installation torque 62.4 to 73.2 N-m (46 to 54 ft-lb)

Maximum allowable torque 163 N-m (120 ft-lb)

Orientation restriction None

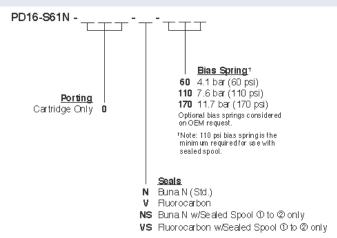
Accessories

Seal kit SK16-6X-BMMMM - Note: X = seal option

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Order Code



Model Options

PD16-S61N-H-J-R

H Line Body

CODE DESCRIPTION No Body

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
60	60 psi Bias Spring
80	80 psi Bias Spring
110	110 psi Bias Spring
170	170 psi Bias Spring

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