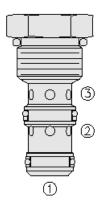


Overview



Description

The PC10-30 is a screw-in, cartridge style, pilot operated, hydraulic check valve.

Operation

The cartridge valve allows free flow from ports 2 to 3, while normally blocking flow from ports 3 to 2. Flow will be allowed from ports 3 to 2 when pressure is applied at port 1. The pilot ratio is 4 to 1.

Features

- · Hardened seat for long life and low leakage.
- · Optional sealed piston.
- Optional spring ranges.
- Industry common cavity.

Symbol



Ratings

Pressure Ratings

Pressure rating 241 bar (3500 psi)

Flow Ratings

Flow rating - Note: See graph

Maximum internal leakage 0.10 ml/min (2 drops/min) - Note: At 207 bar (3000 psi)between ports 3 and

115 ml/min (7 in³/min) - Note: At 207 bar (3000 psi)between ports 2 and

1 Note that the second of the

0 ml/min (0 in³/min) - Note: Between ports 2 and 1 with sealed piston

Temperature Ratings

Operating fluid temperature -40 to 100 °C (-40 to 212 °F) - **Note**: With buna N seals

-26 to 204 °C (-15 to 400 °F)
-54 to 107 °C (-65 to 225 °F)

-Note: With fluorocarbon seals
- Note: With polyurethane and urethane

seals

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

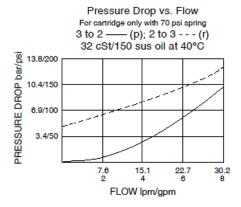
level

Properties

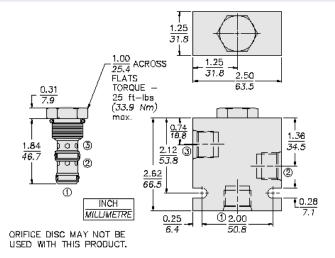
Unit weight 0.10 kg (0.21 lb)
Internal wetted surface area 104 cm² (16.2 in²)

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Performance



Dimensions



Installation Specifications

Cavity VC10-3

Cartridge installation torque 32.6 to 35.4 N-m (24 to 26 ft-lb)

Maximum allowable torque 67.8 N-m (50 ft-lb)

Orientation restriction None

Accessories

Seal kit

SK10-3N-TM
SK10-3V-TM
SK10-3P-TM

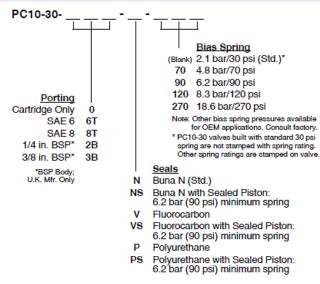
- Note: Buna N
- Note: Fluorocarbon
- Note: Polyurethane

SK10-3U-00 - Note: Urethane

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Order Code



Model Options

PC10-30-H-J-R

H Line Body

	-
CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
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
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
70	70 psi Bias Spring
90	90 psi Bias Spring
120	120 psi Bias Spring
270	270 psi Bias Spring
BLANK	30 psi Bias Spring

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