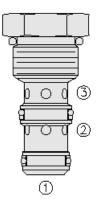


Overview



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.

<u>Features</u>

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

Symbol



Ratings

<u>Pressure Ratings</u>	
Pressure rating	241 bar (3500 psi)
Flow Ratings	
Flow rating Maximum internal leakage	 Note: See graph 0.10 ml/min (2 drops/min) Note: At 207 bar (3000 psi)between ports 3 and Note: At 207 bar (3000 psi)between ports 2 and Note: At 207 bar (3000 psi)between ports 2 and Note: Between ports 2 and 1 with sealed piston
<u>Temperature Ratings</u>	
Operating fluid temperature Storage temperature Ambient 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) seals -40 to 70 °C (-40 to 160 °F) -40 to 90 °C (-40 to 194 °F)

Operating Parameters

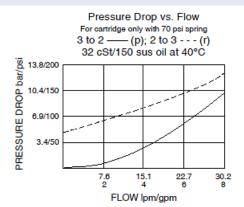
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination 20/18/14 per ISO 4406	
level	

Properties

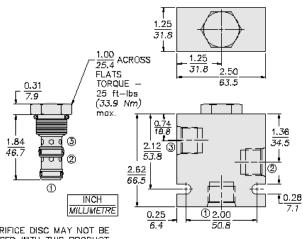
Unit weight	0.10 kg (0.21 lb)
Internal wetted surface area	104 cm² (16.2 in²)



Performance



Dimensions



ORIFICE DISC MAY NOT BE USED WITH THIS PRODUCT.

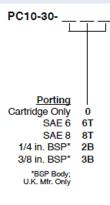
Installation Specifications

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

SK10-3N-TM	- Note: Buna N
SK10-3V-TM	- Note: Fluorocarbon
SK10-3P-TM	- Note: Polyurethane
SK10-3U-00	- Note: Urethane





Bias Spring	
(Blank) 2.1 bar/30 psi (Std.)*	
70 4.8 bar/70 psi	
90 6.2 bar/90 psi	
120 8.3 bar/120 psi	
270 18.6 bar/270 psi	
Note: Other bias spring pressures available for OEM applications. Consult factory.	
* PC10-30 valves built with standard 30 psi	
spring are not stamped with spring rating. Other spring ratings are stamped on valve.	
Seals	
Buna N (Std.)	
Buna N with Sealed Piston:	
6.2 bar (90 psi) minimum spring	
Fluorocarbon	
Fluorocarbon with Sealed Piston:	

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- VS Fluorocarbon with Sealed Piston 6.2 bar (90 psi) minimum spring
- P Polyurethane

N NS V

PS Polyurethane with Sealed Piston: 6.2 bar (90 psi) minimum spring

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
Ν	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

US 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