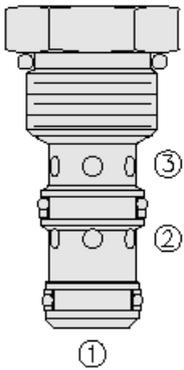




Overview



Description

The PC10-32 is a screw-in, cartridge style, pilot operated, hydraulic check valve.

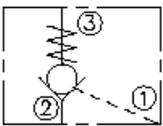
Operation

The 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 2 to 1.

Features

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

Symbol



Ratings

Pressure Ratings

Pressure rating 241 bar (3500 psi)

Flow Ratings

Flow rating	30 lpm (8 gpm)
Maximum internal leakage	5 drops/min - Note: Between ports 3 and 2 at 207 bar (3000 psi) 115 ml/min (7 in ³ /min) - Note: Between ports 2 and 1 at 207 bar (3000 psi) 0 ml/min (0 in ³ /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)	- Note: With viton seals
	-54 to 107 °C (-65 to 225 °F)	- Note: With polyurethane seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)	
Ambient temperature	-40 to 70 °C (-40 to 160 °F)	

Operating Parameters

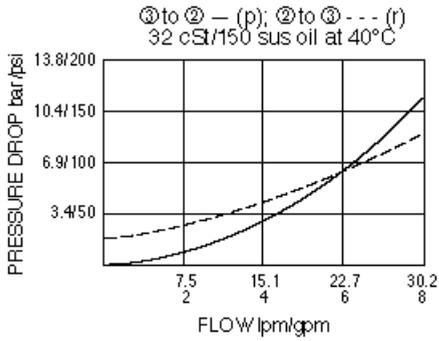
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination level	20/18/14 per ISO 4406

Properties

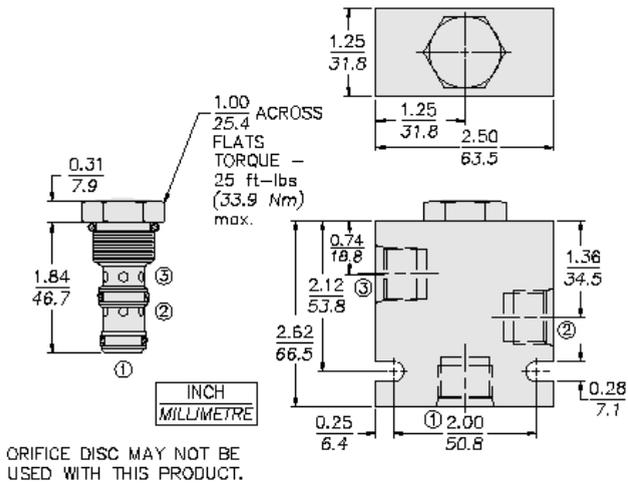
Unit weight	0.1 kg (0.21 lb)
Internal wetted surface area	107 cm ² (16.6 in ²)



Performance



Dimensions



Installation Specifications

Cavity	VC10-3
Cartridge installation torque	32.6 to 35.4 N-m (24 to 26 ft-lb)
Orientation restriction	None

Accessories

Seal kit	SK10-3X-TM	- Note: X = seal option
----------	------------	-------------------------



Order Code

PC10-32 -

<p>Porting</p> <p>Cartridge Only 0</p> <p>SAE 6 6T</p> <p>SAE 8 8T</p> <p>1/4 in. BSP* 2B</p> <p>3/8 in. BSP* 3B</p> <p>*BSP Body; U.K. Mfr. Only</p>	<p>Bias Spring</p> <p>30 2.1 bar/30 psi</p> <p>100 6.9 bar/100 psi</p> <p>Note: Non-standard bias spring pressures available for OEM applications. Consult factory.</p>
<p>Seals</p> <p>N Buna N (Std.) 2.07 bar (30 psi) spring</p> <p>NS Buna N with Sealed Piston 6.9 bar (100 psi) spring minimum</p> <p>V Fluorocarbon 2.07 bar (30 psi) spring</p> <p>VS Fluorocarbon with Sealed Piston 6.9 bar (100 psi) spring minimum</p>	

Model Options

PC10-32-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
P	Polyurethane
PS	Polyurethane with a Sealed Spool
U	PPDI Urethane
US	PPDI Urethane with a Sealed Spool

R Spring

CODE	DESCRIPTION
30	30 psi Bias Spring
100	100 psi Bias Spring