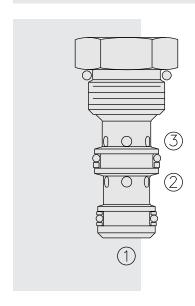
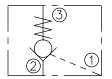
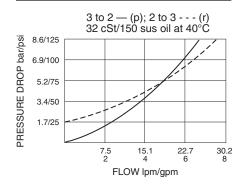
# PC08-30 Check, Pilot-to-Open



### ISO SYMBOL



## PERFORMANCE (Cartridge Only)



#### **DESCRIPTION**

A screw-in, cartridge-style, pilot-operated, hydraulic check valve for use in blocking or load-holding circuits.

#### **OPERATION**

The **PC08-30** allows flow from 2 to 3, while normally blocking flow from 3 to 2. Flow will be allowed from 3 to 2 when sufficient pressure is applied at 1.

The cartridge has a 3:1 pilot ratio, meaning that at least one-third of the load pressure held at 3 is required at 1 to open the valve.

The check is spring-biased to assure holding in static or no-load conditions. A sealed pilot piston option is available.

#### **FEATURES**

- Hardened seat for long life and low leakage.
- Optional sealed piston.
- · Optional spring ranges.
- Compact size.

#### **RATINGS**

Operating Pressure: 240 bar (3500 psi)

Flow: See Performance Chart

Maximum Internal Leakage at 207 bar (3000 psi):

3 to 2: 0.10 ml/minute (2 drops/minute)

2 to 1 without sealed piston: 115 ml/minute (7 cu. in./minute)

2 to 1 with sealed piston: zero leakage

Pilot Ratio: 3:1

Check Spring Bias: 1.72 bar (25 psi) standard; With sealed piston option: 6.2 bar (90 psi) minimum

Temperature: -40 to 100°C (-40 to 212°F) with standard Buna seals;

-26 to 204°C (-15 to 400°F) with fluorocarbon seals;

-54 to 107°C (-65 to 225°F) with polyurethane and urethane seals.

Filtration: See page 9.010.1

**Fluids:** Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

Installation: No restrictions; See page 9.020.1

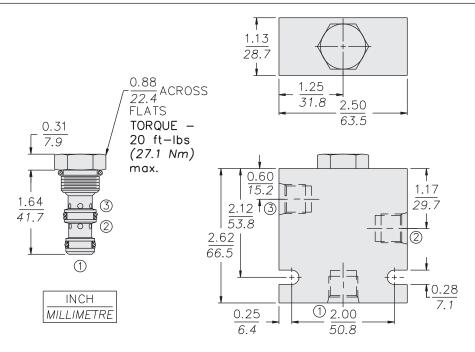
Cavity: VC08-3; See page 9.108.1

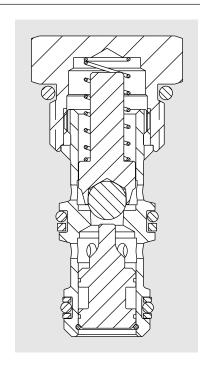
Cavity Tool: CT08-3XX; See page 8.600.1 Seal Kit: SK08-3X-TM; See page 8.650.1



## PC08-30

#### **DIMENSIONS**



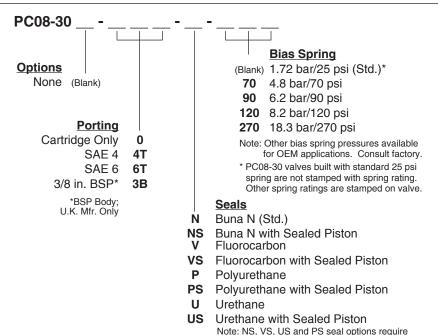


#### **MATERIALS**

Cartridge: Weight: 0.06 kg. (0.14 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and back-ups standard.

Standard Ported Body: Weight: 0.27 kg. (0.60 lbs.) Anodized highstrength aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.008.1

## **TO ORDER**



6.2 bar (90 psi) spring minimum.