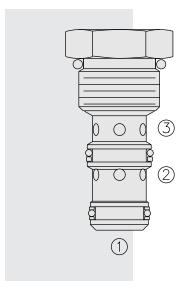
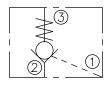
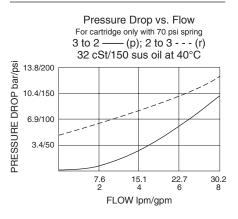
PC10-30 Check, Pilot-to-Open



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 **PC10-30** allows flow passage from 2 to 3, while normally blocking flow from 3 to 2. Flow will be allowed from 3 to 2 when pressure is applied at 1.

The cartridge has a 4:1 pilot ratio, meaning that at least one-fourth 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.

Note: Special higher bias spring values available. Consult factory.

FEATURES

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

RATINGS

Operating Pressure: 241 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: 4:1

Check Bias Spring: 2.07 bar (30 psi);

With sealed piston option: 6.2 bar (90 psi) minimum

Temperature: -40 to 120°C (-40 to 248°F) with standard Buna 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: VC10-3; See page 9.110.1

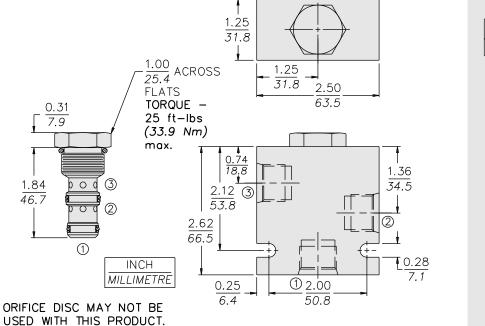
Cavity Tool: CT10-3XX; See page 8.600.1

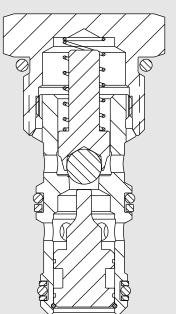
Seal Kit: SK10-3X-TM (Buna N); SK10-3V-TM (Viton); SK10-3P-TM (Polyurethane) See page 8.650.1



PC10-30

DIMENSIONS





MATERIALS

- **Cartridge:** Weight: 0.09 kg. (0.20 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and back-ups standard.
- Standard Ported Body: Weight: 0.36 kg. (0.80 lbs.) Anodized high-strength aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.010.1

TO ORDER

