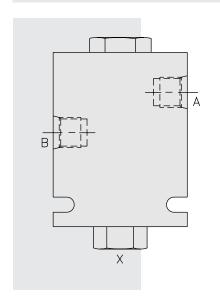
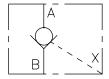
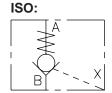
PCV10 Check, Pilot-to-Open



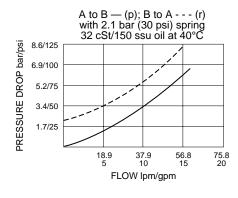
SYMBOLS

USASI:





PERFORMANCE (Cartridge Only)



DESCRIPTION

An in-line-housed, pilot-operated, hydraulic check valve for use in blocking or load-holding circuits.

OPERATION

The **PCV10** allows flow from B to A, while normally blocking flow from A to B. Flow will be allowed from A to B when pressure is applied at X.

The check valve has a 4:1 pilot ratio, meaning that at least one-fourth of the load pressure held at A is required at X to open the valve.

The check is spring-biased at 2 bar (30 psi) to assure holding in static or no-load conditions. A sealed pilot piston option with check spring bias of 6.9 bar (100 psi) is available.

FEATURES

- · Hardened seat for long life and low leakage.
- Optional sealed pilot piston.
- Optional spring ranges.
- Check section is serviceable as a cartridge.

RATINGS

Operating Pressure: 240 bar (3500 psi)

Flow: See Performance Chart

Internal Leakage:

A to B: 0.25 cc/minute (5 drops/minute) max. at 240 bar (3500 psi); B to X (without sealed piston): 245 cc/minute (15 cu. in./minute) max. at 240 bar (3500 psi)

Pilot Ratio: 4:1

Temperature: -40 to 120°C 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

Check Spring Bias: 2 bar (30 psi); with sealed piston option, 6.9 bar (100 psi)

Seal Kit (for CV10-20): SK10-2X-T; See page 8.650.1;

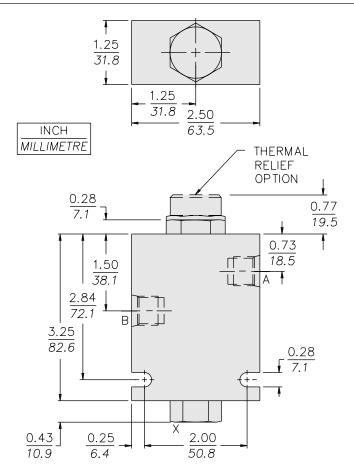
Piston Seal: See Dimension Drawing Pilot Piston Service Part Numbers:

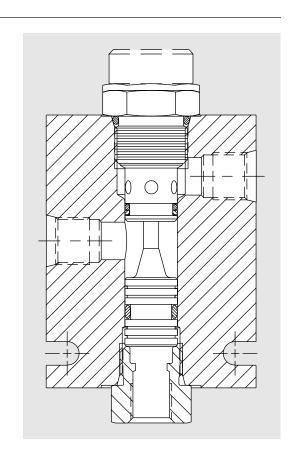
O-Ring (1): Buna 6001014; Fluorocarbon 6003014 Back-ups (2): Buna 6011014; Fluorocarbon 6011014



PCV10

DIMENSIONS





MATERIALS

Cartridge (CV10-20): Weight: 0.08 kg. (0.17 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and poly-ester elastomer back-ups standard.

Pilot Piston: Hardened steel.

Standard Ported Body: Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ; consult factory.

Product Weight: 0.5 kg. (1.10 lbs.).

TO ORDER

