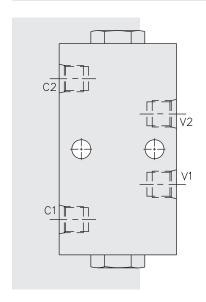
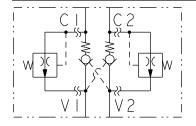
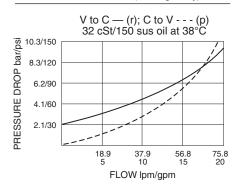
DCV10 Lock Valve



ISO SYMBOL



PERFORMANCE (Cartridge Only)



DESCRIPTION

An in-line-housed, double-pilot-operated, hydraulic check valve with optional thermal reliefs for use in blocking or load holding circuits.

OPERATION

The **DCV10** allows flow from V ports to C ports, while normally blocking flow in the opposite direction. Flow will be allowed from C to V when pressure is applied to the opposite side V port.

The valve has a 4:1 pilot ratio, so at least one-fourth of the load pressure held at either C port is required at the opposite V port to open the flow passage.

The check is spring-biased at 2 bar (30 psi) to assure holding in static or no-load conditions. An optional sealed piston with check spring bias of 6.9 bar (100 psi) is available. Optional thermal reliefs are preset to 348 bar (5050 psi) as standard. **NOTE:** Thermal reliefs cannot be used with sealed pistons.

FEATURES

- Hardened seat for long life and low leakage.
- · Check section serviceable as a cartridge.
- Optional cartridge thermal relief(s).
- · Optional sealed piston.
- · Optional spring ranges.
- · Low pressure drop.

RATINGS

Flow: up to 76 lpm (20 gpm)

Optional Thermal Relief Factory Setting: 348 ±38 bar (5050 ±550 psi)

Thermal Relief Reseat: 207 bar (3000 psi)

Internal Leakage:

Cx to Vx: 0.25 cc/minute (5 drops/minute) maximum at 207 bar (3000 psi); V1 to V2: (without sealed piston): 328 cc/minute (20 cu. in./minute) maximum

at 240 bar (3500 psi)

Pilot Ratio: 4:1

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

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

Seal Kit (for CV10-2x): SK10-2x-T (2 required); See page 8.650.1

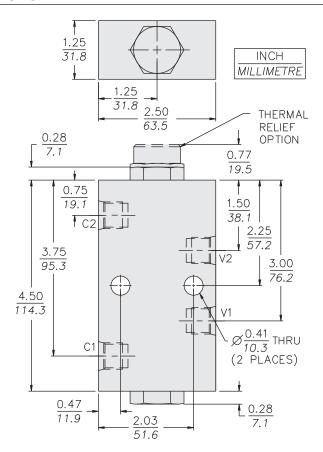
Pilot Piston Service Part Numbers:

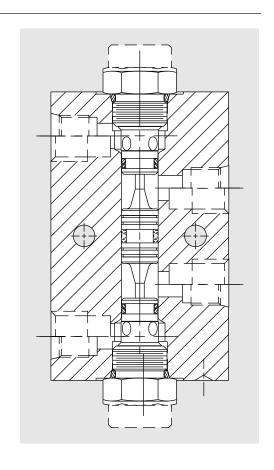
O-Ring (1) – Buna 6001014, Fluorocarbon 6003014 Back-up (2) – Buna 6011014, Fluorocarbon 6011014



DCV10

DIMENSIONS





MATERIALS

Cartridge: (CV10-20): Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester 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. See page 8.010.1

Product Weight: 0.68 kg. (1.5 lbs.)

TO ORDER

