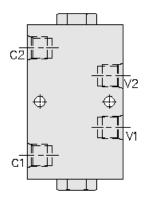


Overview



Description

The DCV10 is a double pilot operated, hydraulic check valve for use in blocking or load holding circuits

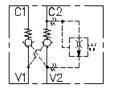
Operation

The valve allows flow from "v" ports to "c" ports, while normally blocking flow in the opposite direction. Flow will be followed from "c" to "v" when pressure is applied to the opposite side "v" port. The valve has 4:1 pilot ratio, so at least 25% of the load pressure held at either "c" port is required at the opposite "v" port to open the flow passage. Optional thermal relief valves are available which CAN be on port "c1" or "c2" or on both ports "c1" and "c2"

Features

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

Symbol



Ratings

Pressure Ratings

241 bar (3500 psi) Pressure rating

Pilot ratio

2.1 bar (30 psi) - Note: Standard for seal codes "n" and "v" Check valve spring value

- Note: Standard for seal codes "ns" and "vs" (sealed options) 6.9 bar (100 psi)

348 to 38 bar (5050 to 550 psi) Optional thermal relief

207 bar (3000 psi) - Note: Minimum Thermal relief crack pressure

Temperature Ratings

-40 to 120 °C (-40 to 248 °F) Operating fluid temperature

Flow Ratings

0.25 ml/min (5 drops/min) - Note: C to V at 241 bar (3500 psi) Maximum internal leakage

328 ml/min (20 in³/min) - Note: V1 to v2 without sealed piston at 241 bar (3500 psi)

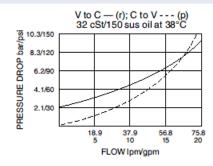
See graph Flow performance

Properties

Body - anodized high strength aluminum alloy. Cartridges - steel with hardened work surfaces and zinc plated exposed surfaces. Pilot piston - hardened steel Materials

Unit weight 0.68 kg (1.50 lb)

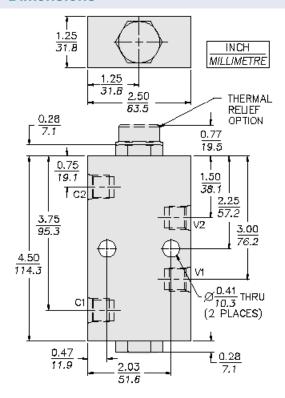
Performance



DCV10 3/25/2021 hydraforce.com



Dimensions



Materials

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.

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: 0.68 kg (1.28 lbs).

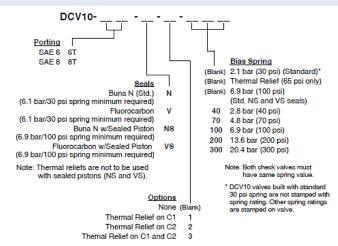
Accessories

 Seal kit
 SK10-2N-T
 - Note: Buna

 SK10-2V-T
 - Note: Viton

Housings

Order Code



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