

DIRECTIONAL VALVE

ICV04-20 BALL VALVE, CHECK VALVE
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(DOWN-HOLE TYPE)



DESCRIPTION

A screw-in, cartridge-style, hydraulic check valve for use as a blocking or load-holding device. Available in conventional surface mount or convenient "down-hole" versions.

OPERATION

The ICV04-20 and ICV04-B20 allow flow passage from ① to ②, while normally blocking oil flow in the opposite direction. The cartridge has a fully guided check which is spring-biased closed until sufficient pressure is applied at ① to open ②.

FEATURES

1. Hardened seat for long life and low leakage.
2. Optional bias springs for back-pressure application flexibility.
3. Fully guided check assembly.
4. Miniature size.
5. Fast closing and seating.

RATINGS

Operating Pressure: 240 bar (3500 psi)

Flow: See Performance Chart

Internal Leakage: 0.10 ml/min. (2 drops/minute) max. at 210 bar (3000 psi)

Crack Pressure Defined: Gauge bar (psi) evident at ① at 16.4 ml/min. (1 cu. in./minute) attained

Standard Bias Springs at Crack: 0.34 bar (5 psi)

Temperature: -40 to 120°C

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 ssu)

Installation: No restrictions

Cavity: IVC04-2/B2; See page 296

MATERIAL

Cartridge: Weight: 0.05 kg. (0.12 lbs.); Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Seal: Buna-N O-rings and back-up rings (standard).

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