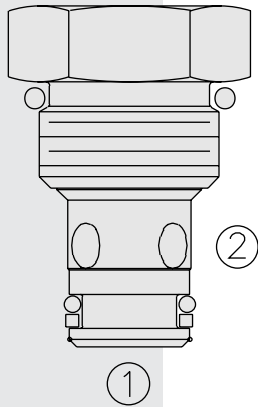


CV08-20 Check Valve



DESCRIPTION

A screw-in, cartridge-style, hydraulic check valve for use as a blocking or load-holding device.

OPERATION

The **CV08-20** allows 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 to ②.

FEATURES

- Hardened seat for long life and low leakage.
- Optional bias springs for back-pressure application flexibility.
- Fully guided check assembly.
- Compact size.
- Fast closing and seating.

RATINGS

Operating Pressure: 240 bar (3500 psi)

Proof Pressure: 350 bar (5075 psi)

Flow: See Performance Chart

Internal Leakage: 0.10 cc/minute (2 drops/minute) max. at 240 bar (3500 psi)

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

Standard Bias Springs at Crack: 0.3 bar (4 psi); 0.7 bar (10 psi); 1.7 bar (25 psi); 4.1 bar (60 psi)

Temperature: -40 to 120°C

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

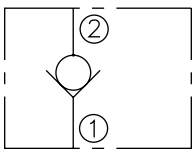
Cavity: VC08-2; See page 9.108.1

Cavity Tool: CT08-2XX; See page 8.600.1

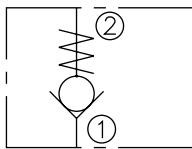
Seal Kit: SK08-2X-T; See page 8.650.1

SYMBOLS

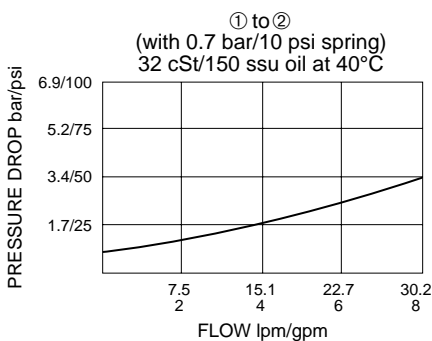
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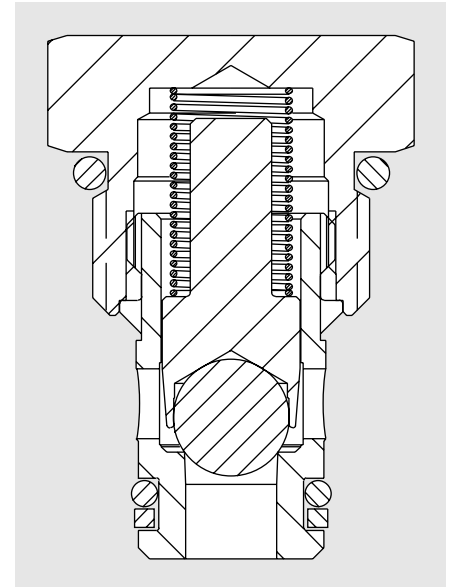
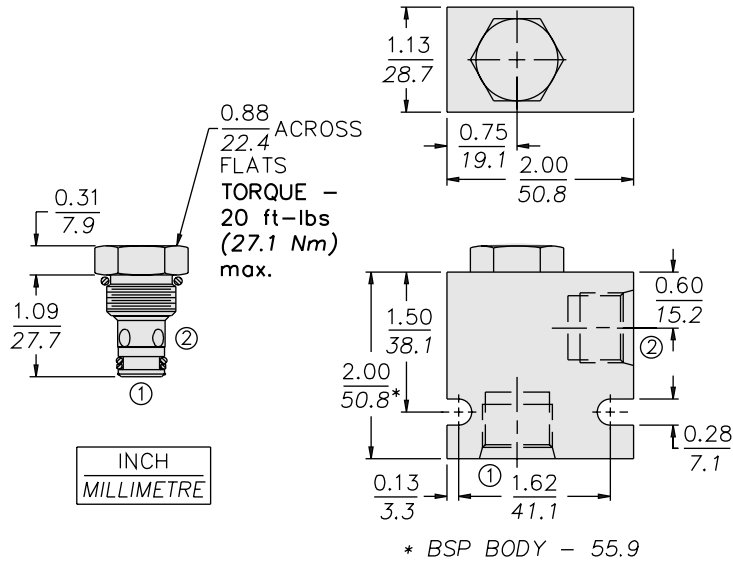
ISO:



PERFORMANCE (Cartridge Only)



DIMENSIONS



MATERIALS

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

Standard Ported Body: Weight:
0.16 kg. (0.35 lbs.) Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.008.1

TO ORDER

CV08-20 -

Porting	Bias Spring
Cartridge Only 0	4 0.3 bar (4 psi)
SAE 4 4T	10 0.7 bar (10 psi)
SAE 6 6T	25 1.7 bar (25 psi)
1/4 in. BSP* 2B	60 4.1 bar (60 psi)
3/8 in. BSP* 3B	100 6.9 bar (100 psi)
1/2 in. BSP* 4B	150 10.3 bar (150 psi)
*BSP Body; U.K. Mfr. Only	200 13.8 bar (200 psi)
	270 18.3 bar (270 psi)

Seals
N Buna N (Std.)
V Fluorocarbon