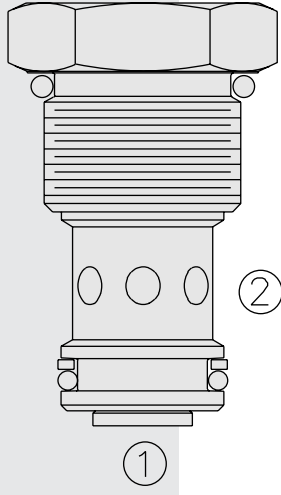


# DIRECTIONAL VALVES

## CV12-21 Check Valve



### DESCRIPTION

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

### OPERATION

The CV12-21 allows flow passage from ② to ①, while blocking flow from ① to ②.

The cartridge has a fully guided check which is spring-biased closed until sufficient pressure is applied at ② to open to ①.

### FEATURES

- Low check mass for anti-cavitation applications.
- Hardened seat for long life and low leakage.
- Optional bias springs for back-pressure application flexibility.
- Cost-effective cavity.

### RATINGS

**Operating Pressure:** 240 bar (3500 psi)

**Flow:** See Performance Chart

**Internal Leakage:** 0.25 cc/minute (5 drops/minute) max. at 240 bar (3500 psi)

**Crack Pressure Defined:** Gauge bar (psi) evident at ② at 16.4 cc/minute (1 cu. in./minute) attained at ①

**Standard Bias Springs at Crack:** 0.4 bar (6 psi); 1.8 bar (26 psi); 3.8 bar (56 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:** See note in dimension drawing regarding minimum pilot drill diameter

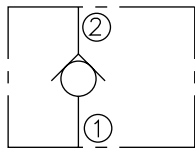
**Cavity:** VC12-2 (Cavity Variation "A"); See page 9.112.1

**Cavity Tool:** CT12-2XX; See page 8.600.1

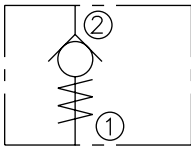
**Seal Kit:** SK12-2X-B; See page 8.650.1

### SYMBOLS

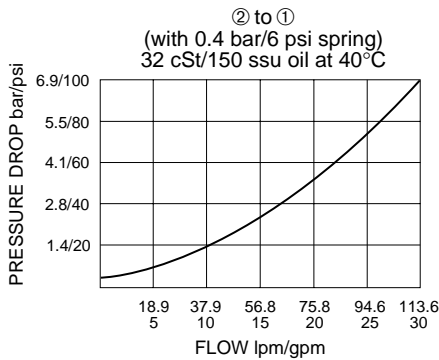
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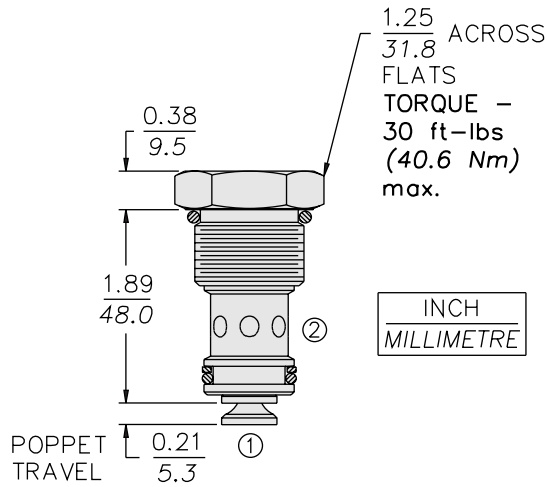
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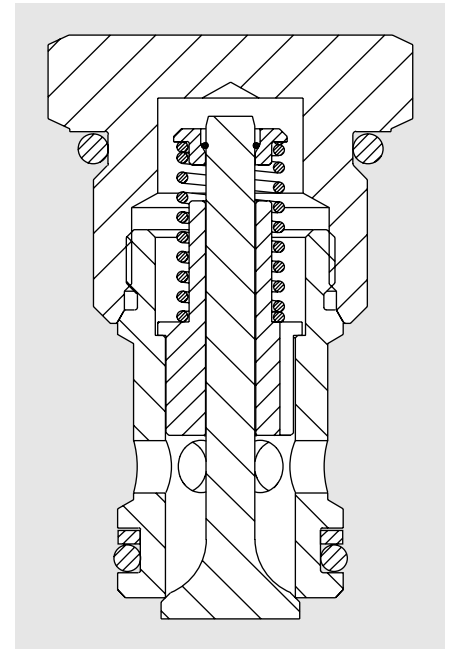
### PERFORMANCE (Cartridge Only)



**DIMENSIONS**



ORIFICE DISCS MAY NOT BE  
USED WITH THIS PRODUCT.



**MATERIALS**

**Cartridge:** Weight: 0.18 kg. (0.40 lbs.)  
Steel with hardened work surfaces.  
Zinc-plated exposed surfaces.  
Buna N O-rings and polyester  
elastomer back-up standard.

**TO ORDER**

