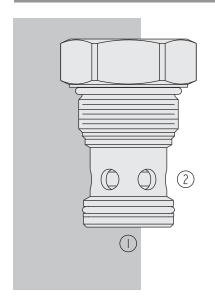
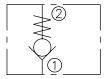
## HCV42-M20 HyPerformance™ Check Valve

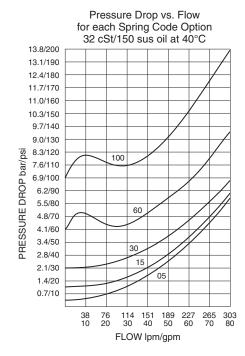


## **SYMBOLS**

## **USASI/ISO:**



## PERFORMANCE (Cartridge Only)



#### **DESCRIPTION**

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

#### **OPERATION**

The **HCV42-M20** allows flow from 1 to 2, while blocking flow in the opposite direction.

The cartridge has a fully guided poppet which is spring-biased to 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.
- All HyPerformance products are tested to the rigorous standards of the NFPA specification T2.6.1.
- All HyPerformance valves are tested at a verification level of 90% and an assurance of 99%.

#### **RATINGS**

Operating Pressure: 350 bar (5075 psi); 10% cycle life: 420 bar (6090 psi) Note: All HyPerformance products are tested for 900K cycles at 350 bar and 100K at 420 bar.

Fatigue Rating: 2 million cycles at 420 bar Burst Pressure: 1380 bar (20000 psi)

Flow: 303 lpm (80 gpm)

**Max. Internal Leakage:** 0.25 cc/minute (5 drops/minute) at 350 bar (5075 psi) **Operating Temperature:** -54 to 107°C (-65 to 225°F) with Urethane seals

Ambient Temperature: -40 to 90°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

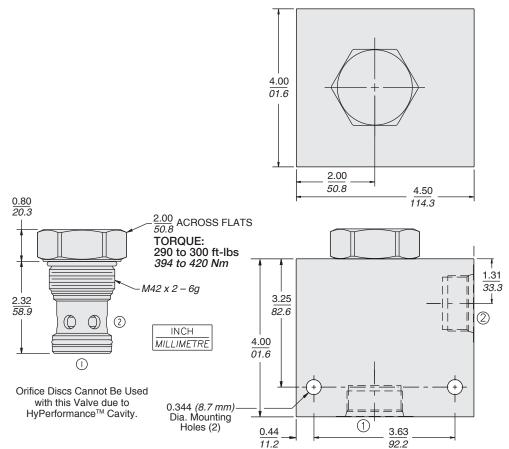
Cavity: HVC42-M2; See page 9.142.1

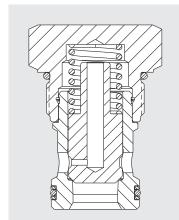
Cavity Tool: HCT42-M2XX; See page 8.600.1 Seal Kit: SK42-M2X-X; See page 8.650.1



# HCV42-M20

#### **DIMENSIONS**





## **MATERIALS**

Cartridge: Weight: 0.68 kg. (1.50 lbs.)
Steel with hardened work surfaces.
Zinc-nickel plated exposed surfaces.
PPDI Urethane seals with no backup rings standard.

Ported Body: Weight: 7.21 kg. (15.89 lbs.); HyPerformance™ Ductile iron (code 'D') standard. Rated to 345 bar (5000 psi).

## **TO ORDER**

