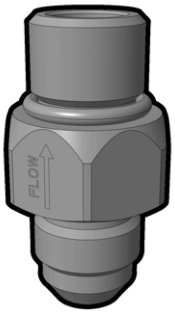
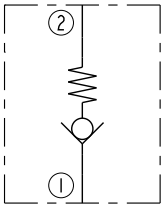
Check valve

Overview



SYMBOL



Description

The ICV06-20 is an in-line hydraulic check valve for use as a blocking or load-holding device.

Operation

The in-line valve allows flow from port 1 to 2, while normally blocking flow in the opposite direction. The valve has a fully guided check poppet which is spring biased closed until sufficient pressure is applied at port 1 to open to port 2.

Features

- Industry standard SAE 6 and JIC 37° flared fittings
- Zero leakage (2 drops per minute at 5000 psi (345 bar)
- Saves manifold space
- Similar performance to CV08-20

Ratings

Pressure Ratings

Pressure rating: 5000 psi [345 bar]

Flow Ratings

Flow rating: See graph

Maximum internal leakage: 2 drops/min [0.10 ml/min] note: At 5000 psi [345 bar]

Temperature Ratings

Operating fluid temperature: (Fluorocarbon) -15 °f to 400 °f [-26 °c to 204 °c]

Storage temperature: -40 °f to 160 °f [-40 °c to 70 °c]

Ambient temperature: -40 °f to 160 °f [-40 °c to 70 °c]

Operating Parameters

Fluids: Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range: 7.4 to 420 cSt

Maximum operating contamination level: 20/18/14 per ISO 4406

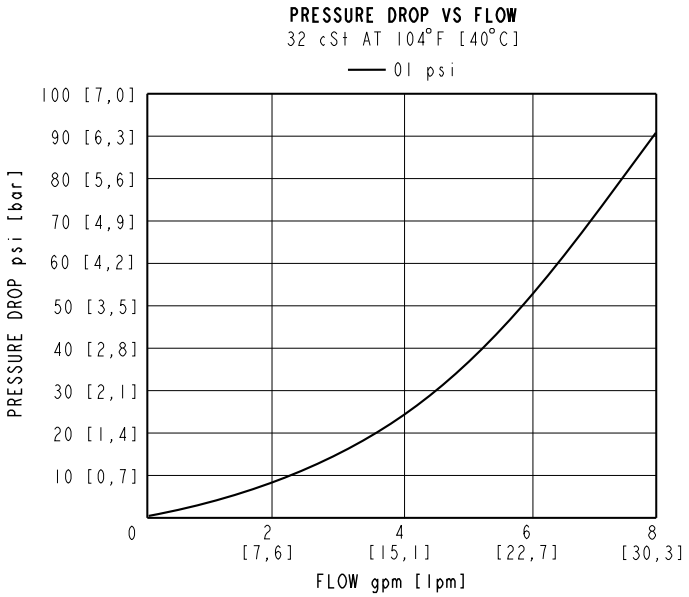
Properties

Unit weight: 0.10 lb [0.05 kg]

Internal wetted surface area: 4.6 in^2 [29.8 cm^2]

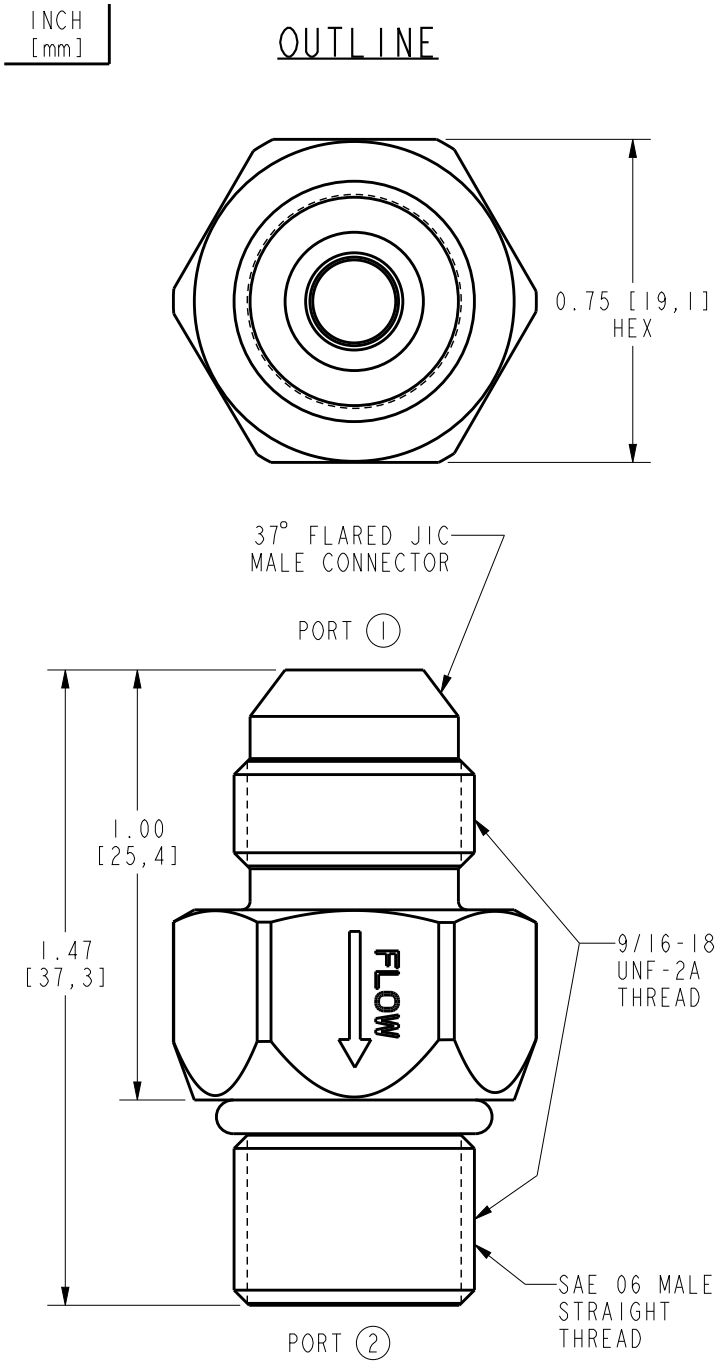
Check valve

Performance



Check valve

Dimensions



Installation Specifications

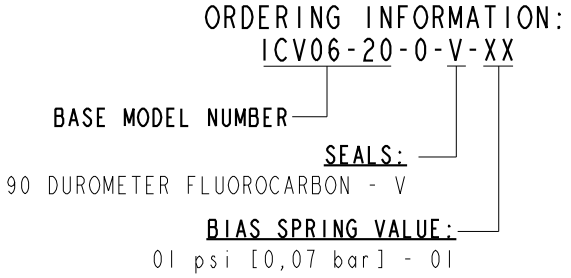
Cavity: SAE 06 port

Cartridge installation torque: 19-21 ft-lb [25.8-28.5 N-m]

Orientation restriction: None

Check valve

Order Code



Model Options

ICV06-20-0-J-R

J Seal

CODE	DESCRIPTION
V	90 Durometer Fluorocarbon

R Bias Spring Value

CODE	DESCRIPTION
01	0.07 bar [01 psi]