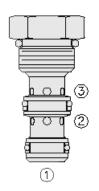


## **Overview**



#### **Description**

The HPC08-30 is a screw-in, cartridge style, pilot operated, hydraulic check valve for use as a blocking or load-holding device for high pressure applications.

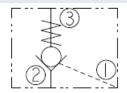
#### **Operation**

The valve allows free flow from port 2 to port 3, while normally blocking flow in the reverse direction. Flow will be allowed from port 3 to port 2 when pressure at port 1 exceeds one-third the pressure at port 3.

#### **Features**

- · Hardened seat for long life and low leakage.
- o Optional sealed piston.
- Optional spring ranges.
- · Compact size.
- 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%.

# **Symbol**



## **Ratings**

#### Pressure Ratings

Pressure rating 350 bar (5075 psi)

420 bar (6090 psi) 690 bar (10000 psi) - Note: 10% cycle life

Proof pressure
Burst pressure

1380 bar (20000 psi)

#### Flow Ratings

Flow rating 30.3 lpm (8 gpm)

Maximum internal leakage 2 drops/min - Note: At 350 bar (5075 psi)

#### Other Ratings

Pilot ratio 3:

Cycle life One million cycles

#### Temperature Ratings

Operating fluid temperature -40 to 100 °C (-40 to 212 °F) - **Note:** With buna N seals

-26 to 204 °C (-15 to 400 °F) -54 to 107 °C (-65 to 225 °F)

F) - Note: With fluorocarbon sealsF) - Note: With urethane seals

Storage temperature -40 to 70 °C (-40 to 160 °F)

Ambient temperature -40 to 90 °C (-40 to 194 °F)

## **Operating Parameters**

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination 18/16/13 per ISO 4406

level

## **Properties**

Unit weight 0.07 kg (0.16 lb)
Internal wetted surface area 90.13 cm² (13.97 in²)

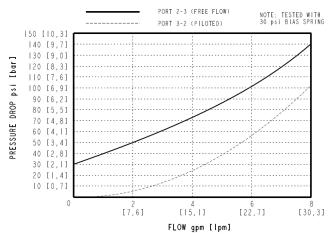
hydraforce.com 240CT2023 16:47 HPC08-30

## **Performance**

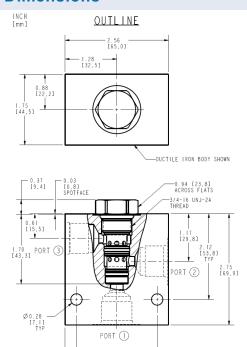
## **PERFORMANCE**

#### PRESSURE DROP VS FLOW

(CARTRIDGE ONLY)
32 cSt AT 104°F [40°C]



## **Dimensions**



ALL DIMENSIONS ARE FOR REFERENCE ONLY

0.28 -[7,1]

# **Installation Specifications**

- 2.00 · [50,8] NOTE: ORIFICE DISK SHOULD NOT BE USED WITH THIS PRODUCT

HVC08-3 Cavity

54 to 61 N-m (40 to 45 ft-lb) Cartridge installation torque - Note: Steel/ductile iron cavity 41 to 47 N-m (30 to 35 ft-lb) - Note: aluminum cavity

Orientation restriction

None

## **Accessories**

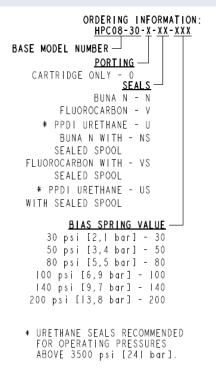
SK08-3N-TM - Note: Buna N Seal kit SK08-3V-TM - Note: Fluorocarbon

SK08-3U-00 - Note: Urethane

HPC08-30 24OCT2023 16:47 hydraforce.com



## **Order Code**



NOTE: NS, VS, AND US SEAL OPTIONS REQUIRE 140 psi [9,7 bar] SPRING MINIMUM.

## **Model Options**

HPC08-30-H-J-R

#### **H Line Body**

CODE	DESCRIPTION
0	No Body
8HT	Ductile Iron SAE 8

## J Seal

CODE	DESCRIPTION
N	Buna-N
NS	Buna-N with a Sealed Spool
V	Fluorocarbon
VS	Fluorocarbon with a Sealed Spool
U	PPDI Urethane
US	PPDI Urethane with a Sealed Spool

## R Spring

CODE	DESCRIPTION
30	30 psi Bias Spring
50	50 psi Bias Spring
80	80 psi Bias Spring
100	100 psi Bias Spring
140	140 psi Bias Spring
200	200 psi Bias Spring

hydraforce.com 240CT2023 16:47 HPC08-30