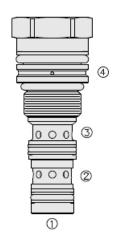
## **Overview**



#### **Description**

The HPB08-E40 is a screw in cartridge style, direct acting, spool type hydraulic pressure load equalizer valve with internal spring pilot chamber and spool damping chamber. It is designed to act as pressure regulating device for secondary circuits.

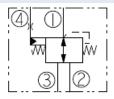
#### **Operation**

In its steady state the HPB08-E40 blocks flow in from port 2 to port 1 and port 2 to port 3. Port 1 is control pressure, port 2 is inlet, port 3 is tank, and port 4 is signal. Port 4 receives signal from the boom cylinder. since port 1 and port 4 have a 1:1 ratio, signal at port 4 sets the pressure at port 1. The valve controls the pressure in the suspension accumulator by adding or removing oil from it.

#### **Features**

- · High pressure operation.
- · Adjustments prohibit springs from going solid.
- · Internal spring pilot chamber.
- · Internal damping chamber. .
- · Pressure-balanced accumulator charging.

# **Symbol**



# **Ratings**

# Pressure Ratings

Pressure rating 350 bar (5075 psi)
Proof pressure 517.1 bar (7500 psi)
Burst pressure 1379.0 bar (20000 psi)

Flow Ratings

Flow rating 37.9 lpm (10 gpm) - Note: At max pressure Maximum internal leakage 15 ml/min (0.9 in³/min) - Note: To port 3

Temperature Ratings

Operating fluid temperature
-40 to 100 °C (-40 to 212 °F)
-26 to 204 °C (-15 to 400 °F)
-54 to 107 °C (-65 to 225 °F)
-40 to 100 °C (-40 to 212 °F)
-54 to 107 °C (-65 to 225 °F)
-56 to 100 °C (-40 to 212 °F)
-57 to 100 °C (-40 to 212 °F)
-58 to 100 °C (-40 to 212 °F)
-59 to 100 °C (-40 to 212 °F)
-50 to 200 °C (-40 to 212 °F)
-50 to 2

Storage temperature  $$-40\ \text{to}\ 70\ ^{\circ}\text{C}\ (-40\ \text{to}\ 160\ ^{\circ}\text{F})$}$  Ambient temperature  $$-40\ \text{to}\ 70\ ^{\circ}\text{C}\ (-40\ \text{to}\ 160\ ^{\circ}\text{F})$}$ 

# **Operating Parameters**

Fluids Mineral based or synthetic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination 20/18/14 per ISO 4406

level

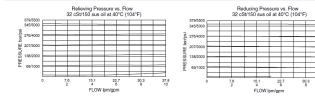
# **Properties**

Unit weight 0.17 kg (0.37 lb)
Internal wetted surface area 141 cm² (21.8 in²)

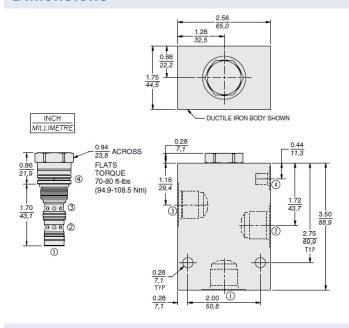
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# **Performance**



# **Dimensions**



# **Installation Specifications**

HVC08-E4 Cavity

94.9 to 108.5 N-m (70 to 80 ft-lb) Cartridge installation torque

Orientation restriction None

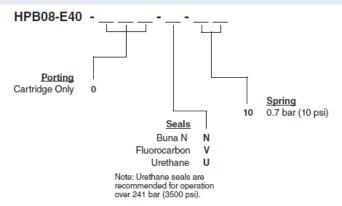
## Accessories

Note: Buna-NNote: Fluorocarbon Seal kit SK08-E4N-BMM SK08-E4V-BMM

SK08-E4U-OOO - Note: Urethane



# **Order Code**



## **Model Options**

HPB08-E40-H-J

# **H Line Body**

CODE	DESCRIPTION
0	No Body

## J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
U	PPDI Urethane

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