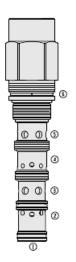


Overview



Description

The HPE42-S62 is a high pressure, screw-in, cartridge-style, pilot-operated, proportional, spool-type, hydraulic directional valve.

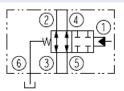
Operation

In neutral position (unpiloted) the valve allows flow between ports 2 and 3 and between ports 4 and 5 bidirectionally. On remote pilot signal at port 1 the spool shifts proportionally to the applied pilot pressure to gradually close flow paths until spool is fully shifted blocking all ports. The spring chamber is vented to port 6. Pressure at port 6 will directly (1:1) affect the pilot pressure required and must be added to bias spring value.

Features

- · Hardened spool and cage for long life.
- 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) - **Note:** (10% cycle life)

Proof pressure 690 bar (10000 psi)
Burst pressure 1380 bar (20000 psi)

Pilot pressure required 27 bar (400 psi) - Note: Minimum to fully shift

Flow Ratings

Flow rating 170 lpm (45 gpm)

Maximum internal leakage 980 ml/min (60 in³/min) - Note: At 350 bar (5075 psi)

Other Ratings

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) - Note: With fluorocarbon seals

-54 to 107 °C (-65 to 225 °F) - **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

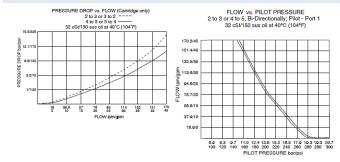
level

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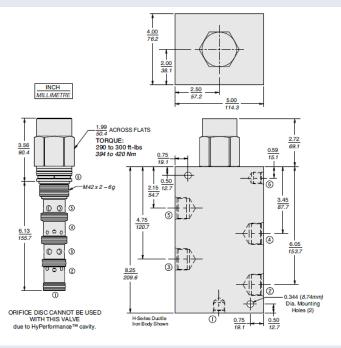
Properties

Unit weight 2.1 kg (4.7 lb)
Internal wetted surface area 870 cm² (135 in²)

Performance



Dimensions



Installation Specifications

Cavity HVC42-s6

Cartridge installation torque 394 to 420 N-m (290 to 310 ft-lb)
298 to 311 N-m (220 to 230 ft-lb)

- Note: Steel/ductile iron cavity
- Note: aluminum cavity

Orientation restriction None

Accessories

Seal kit Hsk42-s6n-bmmmm - Note: Buna N
Hsk42-s6v-bmmmm - Note: Fluorocarbon

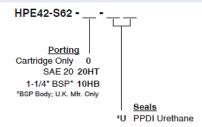
Hsk42-s6u-ooooo - Note: Urethane

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Order Code



*Urethane seals recommended for operating pressures above 241 bar (3500 psi). Consult factory for additional seal options.

Model Options

HPE42-S62-H-J

H Line Body

CODE	DESCRIPTION
0	No Body
20HT	Ductile Iron SAE 20

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
U	PPDI Urethane

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