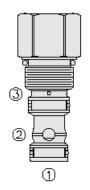


Overview



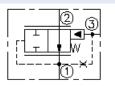
Description

A screw-in, cartridge-style, spool-type, spring-biased, pressure-reducing logic element.

Operation

The ER10-S30 acts as the pressure-reducing element when used in conjunction with a pilot relief valve connected to port 3. The outlet port 1 is connected to the spring chamber and port 3 through the orifice in the spool. When the pilot relief valve is closed, the pressure-reducing element is completely open and allows oil to flow from the inlet at port 2 to the outlet at port 1 with minimum pressure drop. On attainment of a predetermined pressure at port 1, the spool shifts to increase pressure drop between ports 2 and 1, thereby reducing and maintaining pressure at port 1 equal to the preset pilot pressure at port 3.

Symbol



Features

- · Spring-biased, spool type logic element
- · For use in conjunction with a pilot relief valve
- · Hardened spool and cage for long life.
- · Corrosion-resistant plating option available.
- Industry-common size.

Ratings

Pressure Ratings

Pressure rating 350 bar (5000 psi)

Flow Ratings

Flow rating See performance graph

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)
-Note: With buna N seals
- Note: With fluorocarbon seals
- Note: With polyurethane seals

Storage temperature -40 to 70 °C (-40 to 160 °F) Ambient temperature -40 to 90 °C (-40 to 194 °F)

Other Ratings

Corrosion protection 960 hr salt spray per ASTM b117 (ger10-s30)

Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination 20/18/14 per ISO 4406

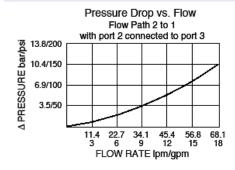
level

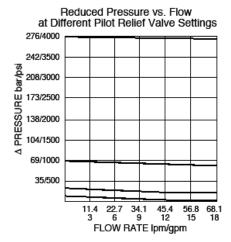
Properties

Unit weight 0.15 kg (0.32 lb) Internal wetted surface area 143 cm 2 (22.17 in 2)

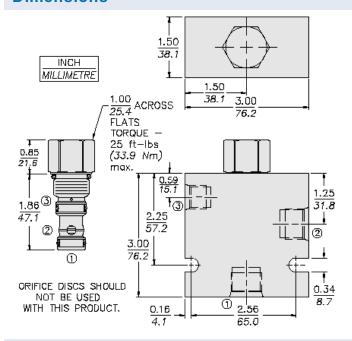
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Performance





Dimensions



Installation Specifications

Cavity VC10-S3

Cartridge installation torque 32.6 to 35.4 N-m (24 to 26 ft-lb)

Orientation restriction None

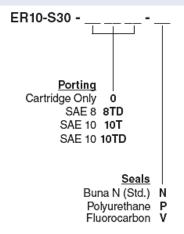
Accessories

Seal kit SK10-3X-MM - Note: X = seal option

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Order Code



Note: Polyurethane seals are recommended for operation over 241 bar (3500 psi)

Model Options

ER10-S30-H-J

H Line Body

CODE	DESCRIPTION
0	No Body

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
Р	Polyurethane
U	PPDI Urethane

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