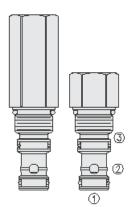


Overview



Description

EPFR50-S35 is a screw-in, cartridge style, bypass type pressure compensating element intended for use with remote fixed or variable orifice to provide a constant flow regardless of load pressure changes.

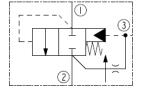
Operation

It is spring biased spool type valve provided with a small internal orifice between ports 2 and 3 so that the valve would bypass all flow to tank at bias spring pressure value plus pressure rise at no load flow demand. The orifice is pressure compensated to restrict flow loss through it at load flow demand.

Features

- Multiple function in a single cavity.
- Low bleed flow throughout the operating pressure range.
- High system efficiency.
- Industry-common cavity.

Symbol



Ratings

<u>Pressure Ratings</u>	
Pressure rating	345 bar (5000 psi)
Flow Ratings	
Flow rating Maximum flow loss	See performance graph 0.76 lpm (0.20 gpm) • Note: Between ports 2 and 3 at 345 bar (5000 psi)
<u>Temperature Ratings</u>	
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)
Storage temperature Ambient temperature	-40 to 70 °C (-40 to 160 °F) -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 20/18/14 per ISO 4406		
level		

Properties

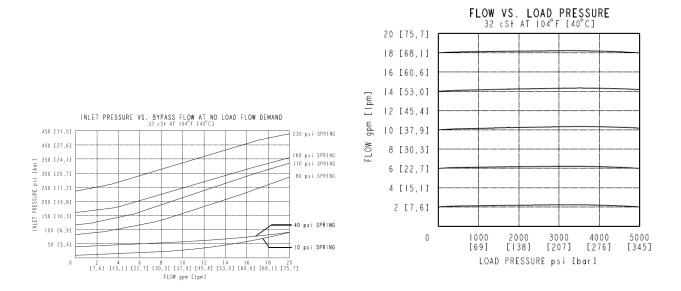
Unit weight	0.15 kg (0.32 lb) 0.28 kg (0.62 lb)	 Note: Standard Note: Tall adaptor
Internal wetted surface area	124 cm² (19.2 in²) 192 cm² (29.7 in²)	 Note: Standard Note: Tall adaptor



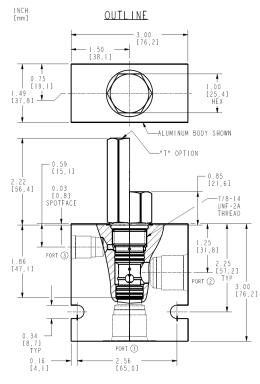
EPFR50-S35 hydraforce.com



Performance



Dimensions



ALL DIMENSIONS ARE FOR REFERENCE ONLY.

Installation Specifications

Cavity Cartridge installation torque Maximum allowable torque Orientation restriction

VC10-S3 32.5 to 35.3 N-m (24 to 26 ft-lb) 67.8 N-m (50 ft-lb) None

Accessories

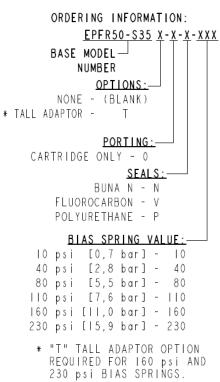
Seal kit

SK10-S3N-MM SK10-S3V-MM SK10-S3P-MM

- Note: BUNA N - Note: Fluorocarbon
- Note: Polyurethane



Order Code



Model Options

EPFR50-S35C-H-J-R

C Tall Cap

CODE	DESCRIPTION
BLANK	Standard Cap
т	Tall Cap
H Lino Body	

H Line Body

CODE	DESCRIPTION

0 No Body

J Seal

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

R Spring

CODE	DESCRIPTION
10	10 psi Bias Spring
40	40 psi Bias Spring
80	80 psi Bias Spring
110	110 psi Bias Spring
160	160 psi Bias Spring
230	230 psi Bias Spring

