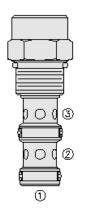


Overview



Description

The FR12-30F is a screw-in, cartridge style, pressure compensated, non-adjustable hydraulic flow regulator valve. It CAN be used as a priority type flow regulator, delivering the pump flow to priority port 3 first, then bypassing excess to port 2; or a restrictive type, 2-way flow regulator when the bypass port 2 is blocked.

Operation

The valve maintains a constant flow rate from port 3 regardless of pressure variations in the system downstream of priority port 3 or in bypass leg at port 2. All ports may be fully pressurized

Features

- · Hardened parts for long life.
- · Quiet, modulated response.
- · Cost-effective cavity.

Symbol



Ratings

Pressure Ratings

Pressure rating 241 bar (3500 psi)
Proof pressure 345 bar (5000 psi)
Burst pressure 896 bar (13000 psi)

Flow Ratings

Priority flow rating 0.4 to 49.2 lpm (0.1 to 13.0 gpm) Inlet flow rating 94.6 lpm (25.0 gpm) - Note: Maximum

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)

-50 to 204 °C (-15 to 400 °F)

-54 to 107 °C (-65 to 225 °F)

-55 to 107 °C (-65 to 225 °F)

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

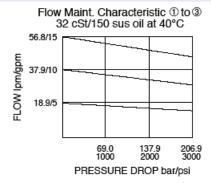
level

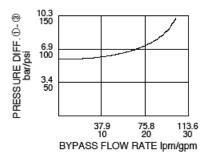
Properties

Unit weight 0.29 kg (0.64 lb)
Internal wetted surface area 221 cm² (34.3 in²)

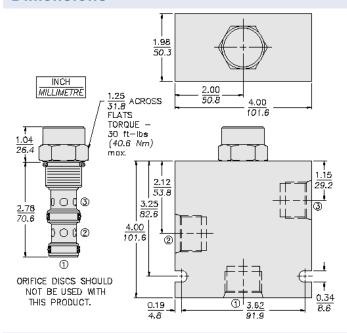
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Performance





Dimensions



Installation Specifications

Cavity VC12-3

Cartridge installation torque 45 to 50 N-m (33 to 37 ft-lb)

Orientation restriction None

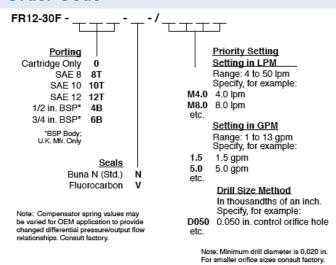
Accessories

Seal kit SK12-3X-MM - Note: X = seal option

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Order Code



Model Options

FR12-30F-G-H-J-/T

F Adjustment Option

CODE	DESCRIPTION
F	Factory Preset Non- Adjustable

G Guide Option

CODE	DESCRIPTION
BLANK	Standard Spring Guide
D	Damped Spring Guide

H Line Body

CODE	DESCRIPTION
0	No Body
8T	Aluminum SAE 8
10T	Aluminum SAE 10
12T	Aluminum SAE 12
12TD	Ductile Iron SAE 12
6B	Aluminum BSPP 3/4" (6)

J Seal

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

T Flow setting

CODE	DESCRIPTION
XX	Flow setting

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