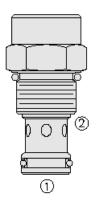


### **Overview**



#### **Description**

FR12-20F is a screw-in, cartridge style, fixed orifice, pressure compensated, hydraulic flow regulator valve (restrictive type).

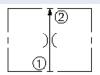
#### **Operation**

The valve maintains a constant flow rate from port 1 to port 2 regardless of load pressure changes. Reverse flow returns through the control orifice and is non-compensated.

#### **Features**

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

# **Symbol**



# **Ratings**

#### Pressure Ratings

Pressure rating 240 bar (3500 psi)

Flow Ratings

Flow rating 4.0 to 55 lpm (1.0 to 14.5 gpm)

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

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

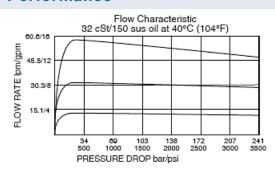
Maximum operating contamination 18/16/13 per ISO 4406

level

## **Properties**

Unit weight 0.25 kg (0.56 lb) Internal wetted surface area  $162 \text{ cm}^2 (25 \text{ in}^2)$ 

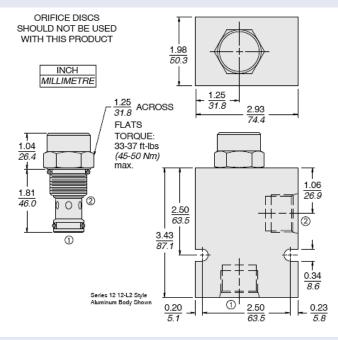
#### **Performance**



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### **Dimensions**



# **Installation Specifications**

Cavity VC12-2

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

Maximum allowable torque 68 N-m (50 ft-lb)

Orientation restriction None

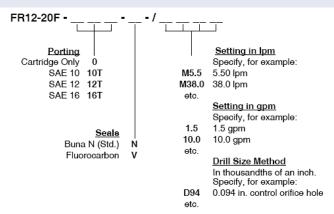
### **Accessories**

Seal kit SK12-2X-M-115 - Note: X = seal option

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# **Order Code**



### **Model Options**

FR12-20F-H-J-/T

## F Adjustment Option

CODE	DESCRIPTION
F	Factory Preset Non- Adjustable

### **H Line Body**

CODE	DESCRIPTION
0	No Body
10T	Aluminum SAE 10
12T	Aluminum SAE 12
16T	Aluminum SAE 16
12TD	Ductile Iron SAE 12
16TD	Ductile Iron SAE 16
8B	Aluminum BSPP 1" (8)
8BD	Ductile Iron BSPP 1" (8)

## 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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