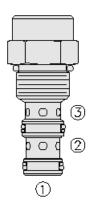


#### **Overview**



#### **Description**

The FR10-30F 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.
- · Industry-common 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 22.7 lpm (0.1 to 6.0 gpm)

Inlet flow rating 37.8 lpm (10.0 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)

-40 to 100 °C (-40 to 212 °F)
-54 to 107 °C (-65 to 225 °F)

-50 to 100 °C (-40 to 212 °F)
-50 to 200 °C (-40 to 212 °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

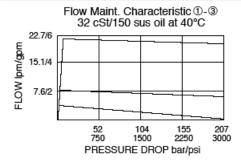
#### **Properties**

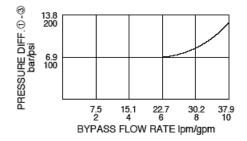
Unit weight 0.13 kg (0.28 lb)
Internal wetted surface area 130 cm² (20.2 in²)

hydraforce.com 25SEP2024 16:39 FR10-30F

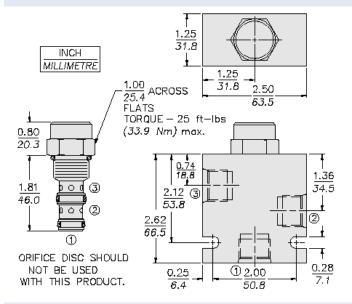


#### **Performance**





## **Dimensions**



# **Installation Specifications**

Cavity VC10-3

Cartridge installation torque 34 to 37 N-m (25 to 27 ft-lb)

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

Orientation restriction None

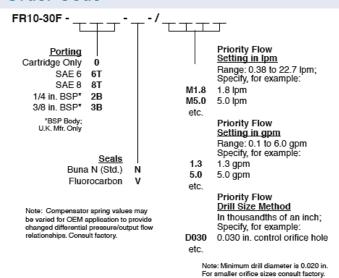
#### **Accessories**

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

hydraforce.com 25SEP2024 16:39 FR10-30F



#### **Order Code**



## **Model Options**

FR10-30F-H-J-/T

## F Adjustment Option

CODE	DESCRIPTION
F	Factory Preset Non- Adjustable

#### **H Line Body**

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

#### J Seal

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

#### T Flow setting

CODE	DESCRIPTION
XX	Flow setting

hydraforce.com 25SEP2024 16:39 FR10-30F