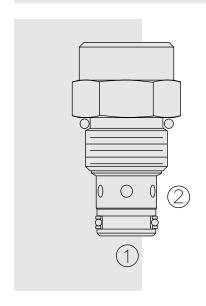
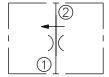
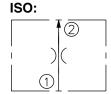
# FR10-20F Regulator, Pressure-Compensated



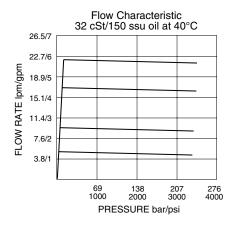
# **SYMBOLS**

#### **USASI:**





#### PERFORMANCE (Cartridge Only)



#### **DESCRIPTION**

A screw-in, cartridge-style, fixed orifice, pressure compensated, hydraulic flow regulating valve (restrictive type).

#### **OPERATION**

The **FR10-20F** maintains a constant flow rate out of ② regardless of load pressure changes in the circuit downstream of ②.

The fixed control orifice is factory preset to customer flow specification. The valve begins to respond to load changes when the flow through the valve creates a pressure differential across the control orifice greater than 5.5 bar (80 psid), with accurate flow maintenance from 7.6 to 240 bar (110 to 3500 psid). Reverse flow (② to ①) returns through the control orifice and is non-compensated.

#### **FEATURES**

- · Hardened parts for long life.
- · Quiet, modulated response.
- Industry common cavity.

#### **RATINGS**

Operating Pressure: 240 bar (3500 psi)

Flow Settings: 0.4 lpm (0.1 gpm) min., 22.7 lpm (6.0 gpm) max. Flow Maintenance: 0.37 to 1.85 lpm (0.1 to 0.49 gpm) settings  $\pm 20\%$ 

1.89 to 5.63 lpm (0.5 to 1.49 gpm) settings  $\pm$  15% 5.68 to 22.71 lpm (1.5 to 6.00 gpm) settings  $\pm$  10%

**Temperature:** -40 to 120°C **Filtration:** See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of

7.4 to 420 cSt (50 to 2000 ssu)

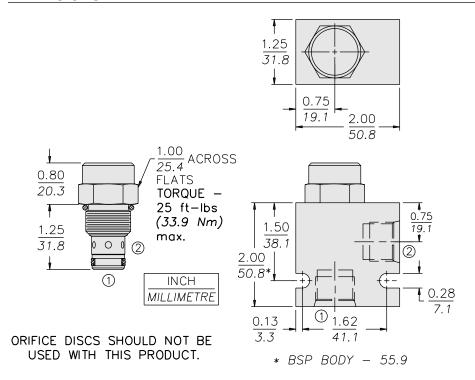
Installation: No restrictions; See page 9.020.1

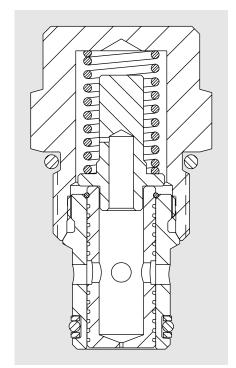
Cavity: VC10-2; See page 9.110.1 Cavity Tool: CT10-2XX; See page 8.600.1 Seal Kit: SK10-2X-M; See page 8.650.1



# FR10-20F

## **DIMENSIONS**





### **MATERIALS**

Cartridge: Weight: 0.08 kg. (0.18 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard.

Standard Ported Body: Weight: 0.16 kg. (0.35 lbs.); Anodized highstrength 6061 T6 aluminum alloy, rated to 240 bar (3500 psi); see page 8.010.1. Ductile iron and steel bodies available; consult factory.

### **TO ORDER**

