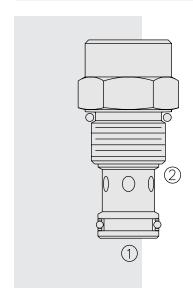
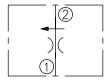
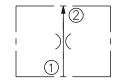
# FR12-20F Regulator, Pressure-Compensated



# SYMBOLS

#### **USASI:**





ISO:

#### **DESCRIPTION**

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

### **OPERATION**

The FR12-20F 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 ③) returns through the control orifice and is non-compensated.

#### **FEATURES**

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

#### **RATINGS**

Operating Pressure: 240 bar (3500 psi)

Flow Settings: 4 lpm (1 gpm) min; 55 lpm (14.5 gpm) max.

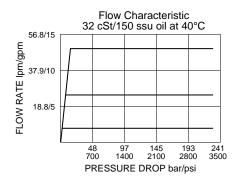
**Temperature:** -40 to 120°C **Filtration:** See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

Installation: No restrictions; See page 9.020.1

Cavity: VC12-2; See page 9.112.1 Cavity Tool: CT12-2XX; See page 8.600.1 Seal Kit: SK12-2X-M; See page 8.650.1

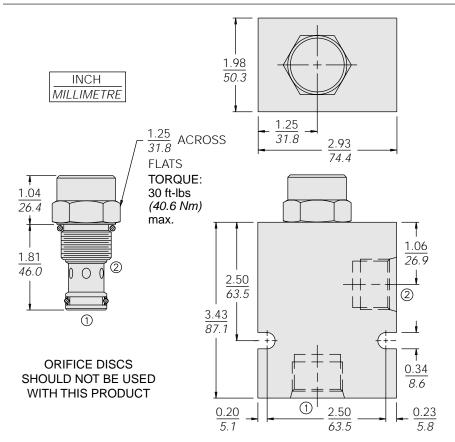
## **PERFORMANCE**

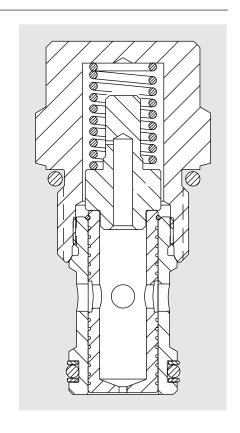




# FR12-20F

#### **DIMENSIONS**



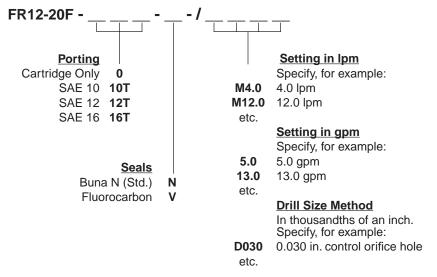


#### **MATERIALS**

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: 0.52 kg. (1.15 lbs.) Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1

### TO ORDER



Note: Minimum drill diameter is 0.020 in. For smaller orifice sizes consult factory.