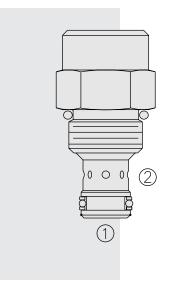
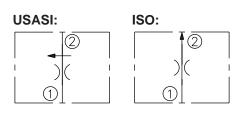
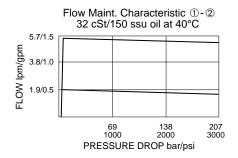
FR08-20F Regulator, Pressure-Compensated



SYMBOLS



PERFORMANCE (Cartridge Only)



DESCRIPTION

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

OPERATION

The **FR08-20F** maintains a constant flow rate out of @ regardless of load pressure changes in the circuit downstream of @.

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 (20 to 1) returns through the control orifice and is non-compensated.

FEATURES

- · Hardened parts for long life.
- Quiet, modulated response.
- Compact size.

RATINGS

Operating Pressure: 240 bar (3500 psi)

Flow Settings: 0.4 lpm (0.1 gpm) min., 7.5 lpm (2.0 gpm) max.

Standard Compensator Bias Spring: 5.5 bar (80 psid) differential

Flow Maintenance Setting Range: 0.2 to 1.8 lpm (0.05 to 0.49 gpm) to accuracy of $\pm 15\%$; 1.9 to 7.5 lpm (0.5 to 2.0 gpm) to accuracy of $\pm 10\%$

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 sus); See Temperature and Oil Viscosity, page 9.060.1

Installation: No restrictions; See page 9.020.1

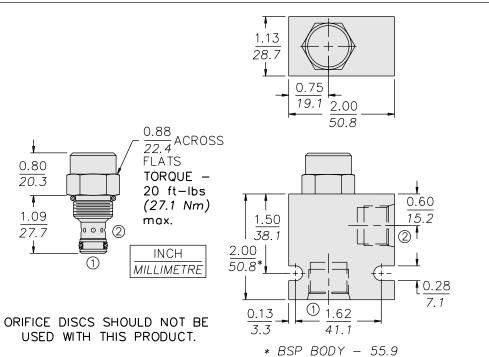
Cavity: VC08-2; See page 9.108.1

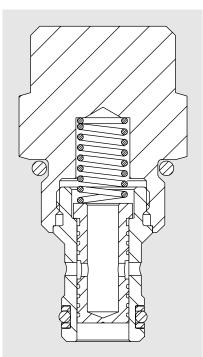
Cavity Tool: CT08-2XX; See page 8.600.1

Seal Kit: SK08-2X-M; See page 8.650.1

FR08-20F

DIMENSIONS

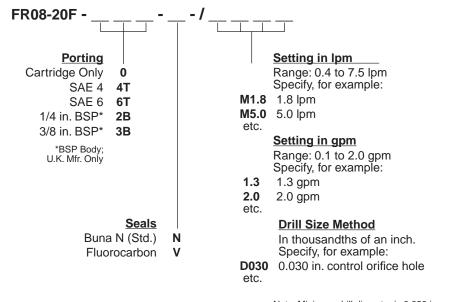




MATERIALS

- **Cartridge:** Weight: 0.07 kg. (0.15 lbs. Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and fluorocarbon back-ups standard.
- Standard Ported Body: Weight: 0.16 kg. (0.35 lbs.) Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.008.1

TO ORDER



Note: Compensator spring values may be varied for OEM application to provide changed differential pressure/output flow relationships. Consult factory. Note: Minimum drill diameter is 0.020 in. For smaller orifice sizes consult factory.