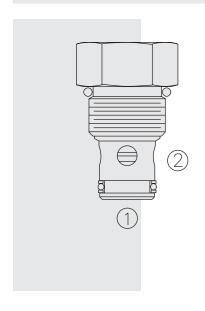
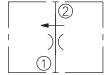
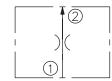
FR50-20F Regulator, Pressure-Compensated,



SYMBOLS

USASI:





ISO:

DESCRIPTION

A screw-in, cartridge-style, fixed orifice, pressure compensated, hydraulic flow regulating valve (restrictive type) for operation up to 345 bar (5000 psi).

OPERATION

The **FR50-20F** maintains a constant flow rate from ① to 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 psi), with accurate flow maintenance from 7.6 to 345 bar (110 to 5000 psi). Reverse flow (② to ③) returns through the control orifice and is non-compensated.

FEATURES

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

RATINGS

Operating Pressure: 345 bar (5000 psi)

Flow Settings: 0.8 lpm (0.2 gpm) minimum; 22.7 lpm (6.0 gpm) maximum Flow Maintenance: 0.37 to 1.85 lpm (0.1 to 0.49 gpm) settings ±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%

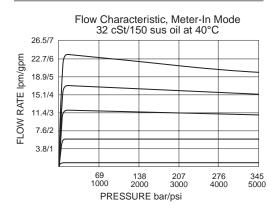
Temperature: -40 to 120°C **Filtration:** See page 9.010.1

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

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

PERFORMANCE (Cartridge Only)

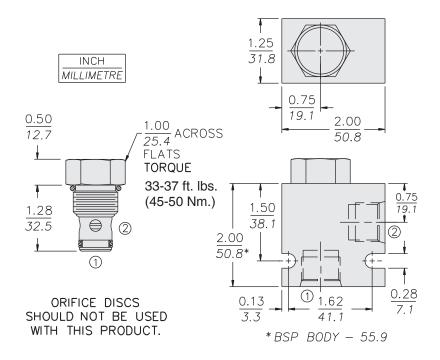




High Pressure

FR50-20F

DIMENSIONS



MATERIALS

Cartridge: Weight: 0.1 kg. (0.21 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 207 bar (3000 psi) Ductile iron bodies available; dimensions may differ. See page 8.010.1.

TO ORDER

