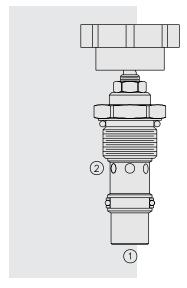
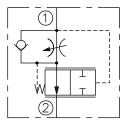
FR12-23 Regulator, Pressure-Compensated



SYMBOLS

USASI/ISO:



DESCRIPTION

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

OPERATION

The FR12-23 maintains a constant flow rate out of ② regardless of load pressure changes in the circuit downstream of ② or upstream of ①.

The regulated flow increases from closed to fully open with counter-clockwise rotation of the adjustment screw. The valve will maintain the set flow regardless of pressure variations on the regulated or inlet port. Reverse flow (② to ①) bypasses the control orifice.

FEATURES

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

RATINGS

Operating Pressure: 240 bar (3500 psi) **Flow Settings:** 0–77 lpm (0–20 gpm)

Internal Leakage (① to ②): 0.12 lpm (0.03 gpm) max., fully closed Adjustment Torque Required: 1.7 Nm (15 in.-lbs.) at 207 bar (3000 psi)

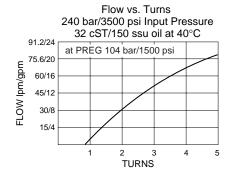
Temperature: -40 to 120°C **Filtration:** See page 9.010.1

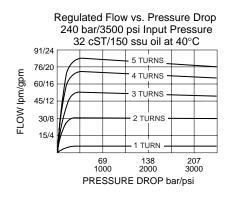
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

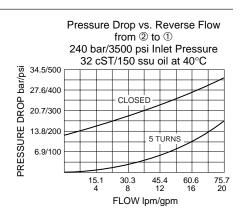
Installation: No restrictions; See page 9.020.1 Cavity: VC12-2, Variation "B"; See page 9.112.1 Cavity Tool: CT12-2XX; See page 8.600.1 Seal Kit: SK12-2X-M; See page 8.650.1

Knob Kit: Part Number 6113160; Converts from shaft-only version to "E" version

PERFORMANCE



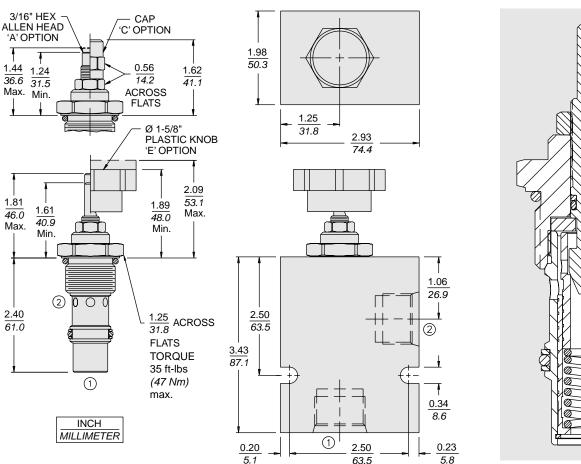


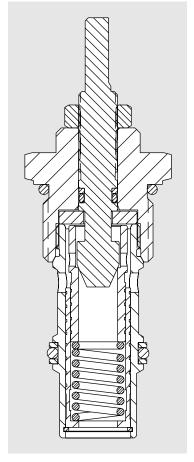




FR12-23

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.

Special 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

