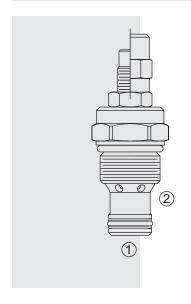
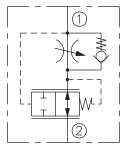
# FR50-23 Regulator, Pressure-Compensated,



# SYMBOLS

#### **USASI/ISO:**



#### **DESCRIPTION**

A screw-in, cartridge-style, adjustable, pressure-compensated, restrictive-type hydraulic flow regulating valve.

#### **OPERATION**

The **FR50-23** 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 from ② to ① bypasses the control orifice.

### **FEATURES**

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

#### **RATINGS**

**Operating Pressure:** 345 bar (5000 psi) **Flow Rating:** 0.4–11.5 lpm (0.1–3.0 gpm)

Flow Maintenance: ±10% through full pressure range

Internal Leakage ① to ②: 30 ml/minute (1.8 cu. in./minute) at 345 bar (5000 psi)

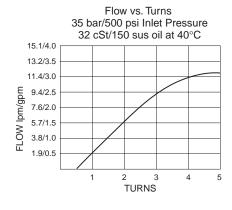
**Temperature:** -40 to 120°C **Filtration:** See page 9.010.1

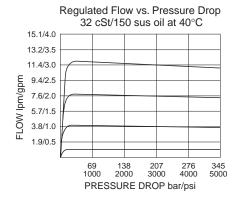
**Fluids:** Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

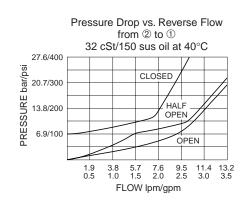
Installation: No restrictions; See page 9.020.1

Cavity: 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**



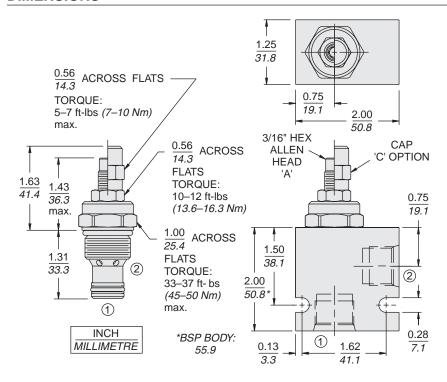




# **High Pressure**

FR50-23

#### **DIMENSIONS**



#### **MATERIALS**

Cartridge: Weight: 0.14 kg. (0.31 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**

