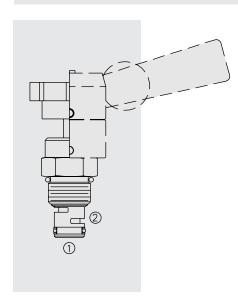
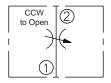
MR10-20 Manual Rotary Flow Control

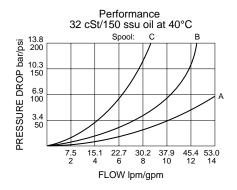


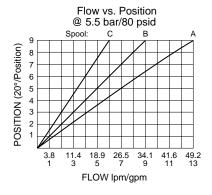
SYMBOLS

USASI/ISO:



PERFORMANCE (Cartridge Only)





DESCRIPTION

A manually-adjustable variable orifice, offering linear control with adaptability to a variety of adjustment operators (ordered separately).

OPERATION

In extreme clockwise position, valve is fully closed (normally closed). Counterclockwise rotation of 180° gradually increases flow. The first 10° (approx.) of rotation is deadband. The last 15° of rotation increases flow very little. For a normally-open version with counterclockwise rotation gradually decreasing flow, consult factory. NOTE: Use of the valve in the ① to ② direction is **not** recommended if the plastic knob operator is used. Because of the low effort (internal bearing used) adjustment, flow forces may cause setting change. The valve will operate ① to ② well with handle-type operator kits.

FEATURES

- Ten-position detent or infinite friction lock options.
- · Good linearity in three flow range options.
- Adaptable to a variety of operators.
- Optional lock-down bracket.
- Heavy-duty construction.
- Low effort adjustment.
- · Industry common cavity.

RATINGS

Operating Pressure: 240 bar (3500 psi) **Max. Flow:** See Performance Chart

Flow Rate Delivered at 5.5 bar (80 psi) Differential:

Model Code	Flow
Α	49 lpm (13 gpm
В	34 lpm (9 gpm)
С	22 lpm (6 gpm)

Leakage in "Off" Position at 207 bar (3000 psi): 164 cc/min. (10 cu. in.)

Temperature: -40 to 120°C with standard Buna N seals Torque Required to Change Position Under Load:

@7 bar (100 psi): 3.9 Nm (35 lb.-in.) @ 240 bar (3500 psi): 5.1 Nm (45 lb.-in.)

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 position restrictions; See page 9.020.1 See page 4.780.2 for operator handles/knobs installation; See page 4.780.1 for lock-down bracket installation.

Cavity: VC10-2; See page 9.110.1

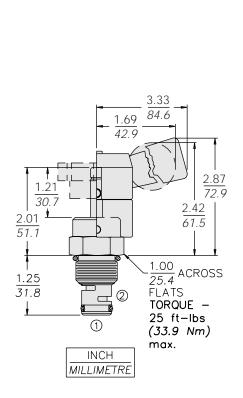
Cavity Tool: CT10-2XX; See page 8.600.1 Seal Kit: SK10-2X-M; See page 8.650.1

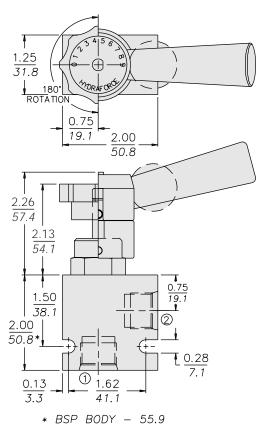
Lock-Down Bracket Kit: Part Number 5399000

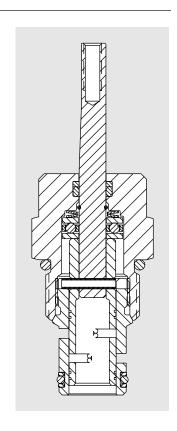


MR10-20

DIMENSIONS







MATERIALS

Cartridge: Weight: 0.12 kg. (0.26 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 8.010.1

Lever-Type Handle: (Sold Separately) Weight: 0.18 kg. (0.38 lb.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Plastic lever arm.

TO ORDER

