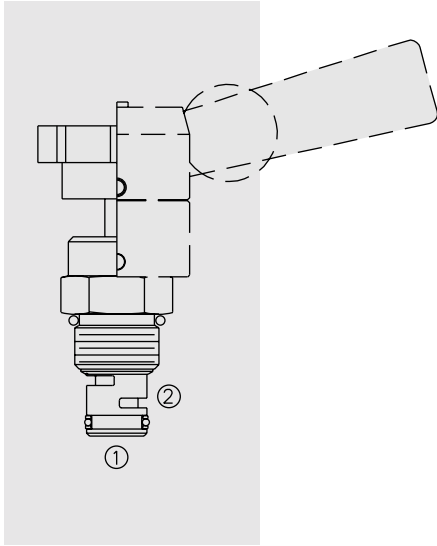


MR10-20 Manual Rotary Flow Control



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.

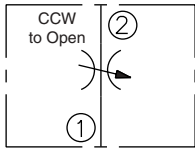
NOTE: Use of the valve in the ① to ② direction is **not** recommended if the plastic knob operator is used. Because of the low effort (internal bearing used) adjustment, flow forces may cause setting change. The valve will operate ① to ② well with handle-type operator kits.

FEATURES

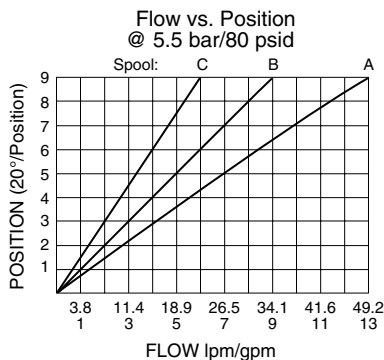
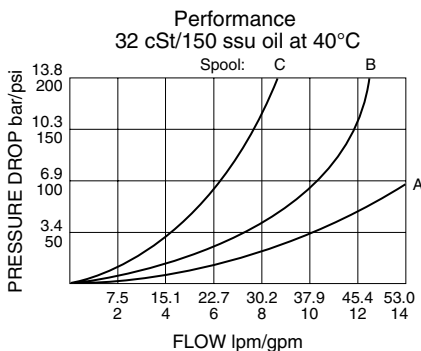
- Ten-position detent or infinite friction lock options.
- Good linearity in three flow range options.
- Adaptable to a variety of operators.
- Optional lock-down bracket.
- Heavy-duty construction.
- Low effort adjustment.
- Industry common cavity.

SYMBOLS

USASI/ISO:



PERFORMANCE (Cartridge Only)



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
A	49 lpm (13 gpm)
B	34 lpm (9 gpm)
C	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 ssu)

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.

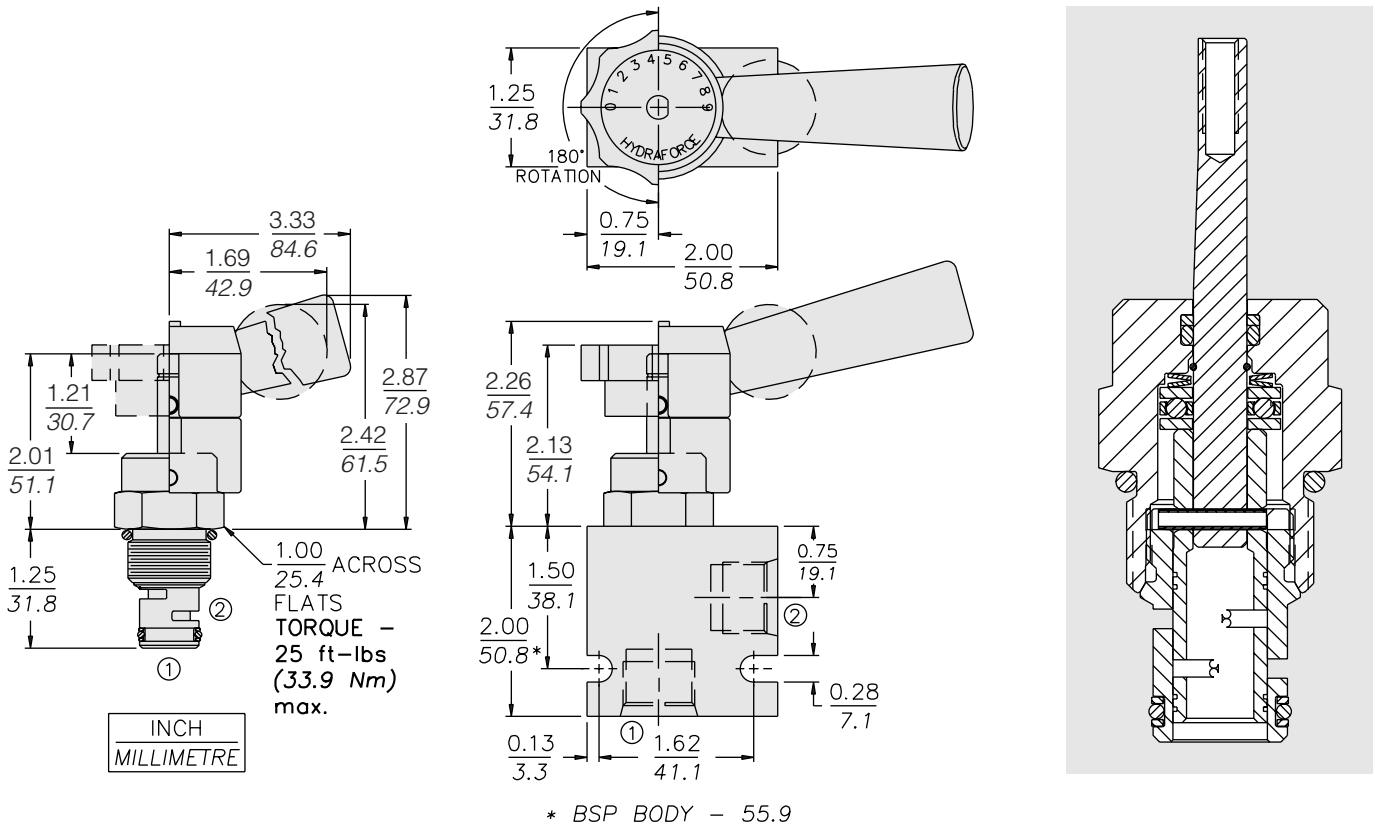
Cavity: VC10-2; See page 9.110.1

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

DIMENSIONS



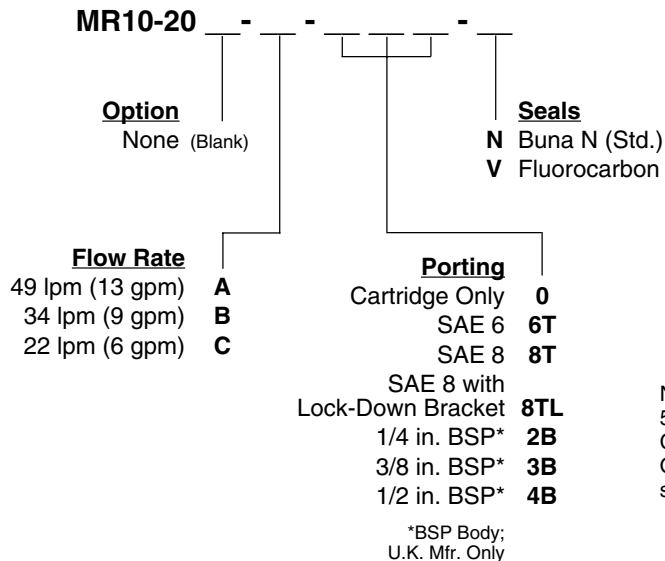
MATERIALS

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 high-strength 6061 T6 aluminum alloy, rated to 240 bar (3500 psi); see page 8.010.1. Ductile iron and steel bodies available; dimensions may differ; consult factory.

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



NOTE: See page 5.003.2 for Flow Control Adjustment Options (ordered separately).