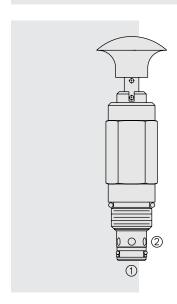
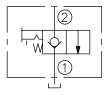
MP10-22 Manual, Spring Return, Pull-to-Open

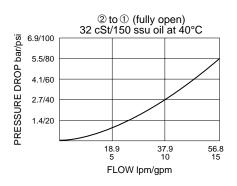


SYMBOLS

USASI/ISO:



PERFORMANCE (Cartridge Only)



DESCRIPTION

A manual, 2-way, normally closed, pull-to-open, spring-return, screw-in, hydraulic cartridge, system unloading valve for higher tank pressure applications.

The MP10-22 blocks flow from 2 to 1 until an operator pulls the shaft outward. The bias spring allows for up to 27.6 bar (400 psi) back-pressure at ① before the valve will open.

When passing high flow rates, a combination of the differential pressure across the valve (flowing 2 to 1) and 2 downstream back-pressure may require the operator to push the shaft to close.

Note: Pressure at port ① will directly act on the spool and spring. Port ① is intended to be a tank port only.

A unique 90° rotational lock is optional for positive "open" position holding. The valve resets to spring return-to-close with a 90° turn from the locked-open position.

FEATURES

- · Hardened seat for long life and low leakage.
- Remains closed to 27.6 bar (400 psi) back-pressure.
- · Optional rotational lock position.
- · Industry common cavity.

RATINGS

Operating Pressure: 207 bar (3000 psi) Proof Pressure: 350 bar (5075 psi) Flow: See Performance Chart

Internal Leakage 2 to 1: 0.25 cc/minute (5 drops/minute) max. at 207 bar

(3000 psi)

Mechanical Pull Effort Required: 14.1 kg. (31 lbs.) installed; 16.3 kg. (36 lbs.)

to travel 3.18 mm (0.125 in.); 17.3 kg. (39 lbs.) to detent

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

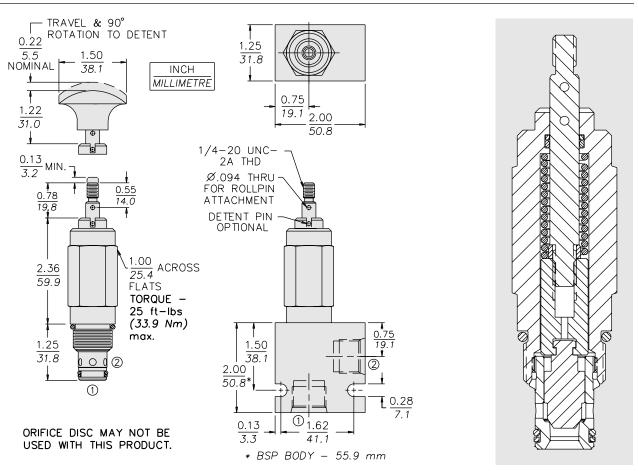
Installation: No restrictions; See page 9.020.1

Cavity: VC10-2; See page 9.110.1 Cavity Tool: CT10-2XX; See page 8.600.1 Seal Kit: SK10-2X-T; See page 8.650.1



MP10-22

DIMENSIONS



MATERIALS

Cartridge: Weight: 0.23 kg. (0.50 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Buna N O-rings and polyester
elastomer back-up standard.
Plastic knob optional.

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

