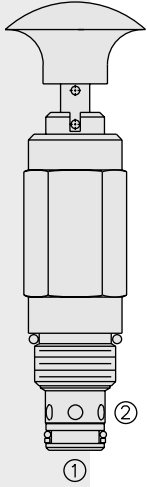


DIRECTIONAL VALVES

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



DESCRIPTION

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

OPERATION

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.

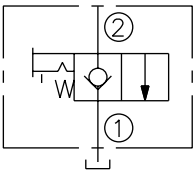
A unique 90° rotational lock is optional for positive “open” position holding. The valve resets to spring return-to-close with a 90° turn from the locked-open position.

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.

SYMBOLS

USASI/ISO:



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 ssu)

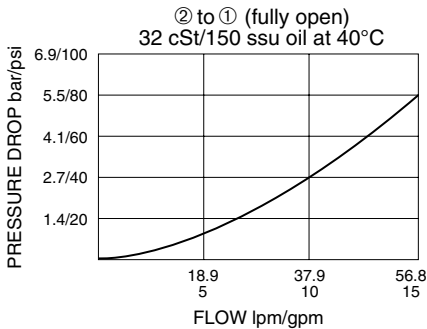
Installation: No restrictions; See page 9.020.1

Cavity: VC10-2; See page 9.110.1

Cavity Tool: CT10-2XX; See page 8.600.1

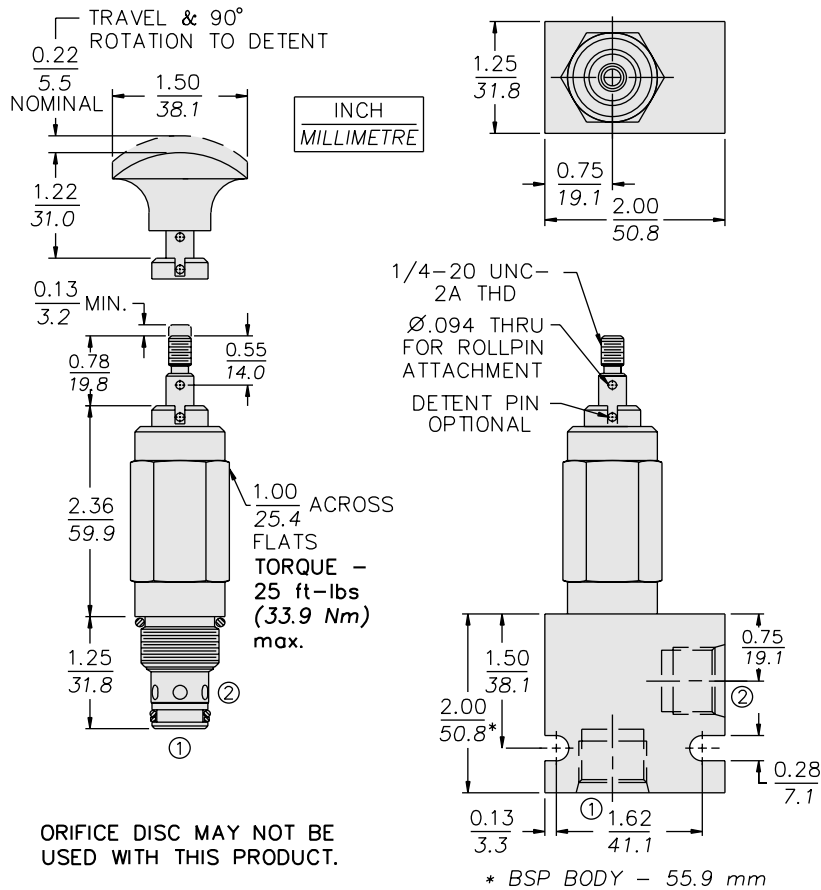
Seal Kit: SK10-2X-T; See page 8.650.1

PERFORMANCE (Cartridge Only)

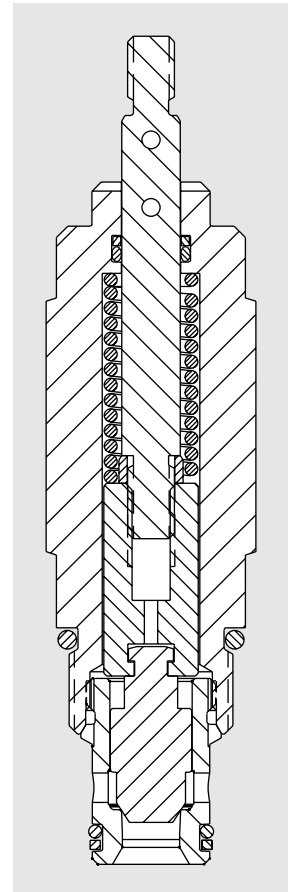


MP10-22

DIMENSIONS



ORIFICE DISC MAY NOT BE USED WITH THIS PRODUCT.



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 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.

TO ORDER

MP10-22		-	-	-
Option				Seals
Threaded Shaft/ Spring Return	T			N Buna N (Std.)
Threaded Shaft/ Lock Position Pin	R			V Fluorocarbon
Black Plastic Knob/ Spring Return	K			
Black Plastic Knob/ Lock Position Pin	D			
Red Plastic Knob/ Spring Return	J			
Red Plastic Knob/ Lock Position Pin	L			
			Porting	
			0	Cartridge Only
			6T	SAE 6
			8T	SAE 8
			2B	1/4 in. BSP*
			3B	3/8 in. BSP*
			4B	1/2 in. BSP*

*BSP Body;
U.K. Mfr. Only