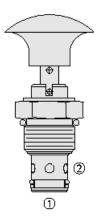


Overview



Symbol



Ratings

Description

The MP10-20 is a 2-way, manual pull to open, spring return, screw-in cartridge style, directional hydraulic valve.

Operation

In the neutral position the valve blocks flow from ports 2 to 1 until it is manually actuated (pulled). When released the valve returns to its neutral position. Note: pressure at port 1 will directly act on the spring. Port 1 is intended to be a tank port only. The bias spring allows up to 180 psi [12,4 bar] back-pressure at port 1 before the valve will open. A unique 90Ű rotational lock is optional for positive "open" position holding. The valve resets to spring return-to-close with a 90Ű turn from the locked-open position. **note:** pressure at port 1 will directly act on the spring.

<u>Features</u>

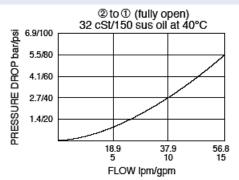
- Hardened seat for long life and low leakage.
- Remains closed to 12.4 bar (180 psi) back-pressure.
- Optional rotational lock position.
- Industry-common cavity.

<u>Pressure Ratings</u>	
Pressure rating	207 bar (3000 psi) - Note: Port 2 12.4 bar (180 psi) - Note: Port 1
<u>Flow Ratings</u>	
Flow rating	56.8 lpm (15 gpm)
Maximum internal leakage	0.25 ml/min (5 drops/min) - Note: At 207 bar (3000 psi)
<u>Temperature Ratings</u>	
Operating fluid temperature	-40 to 100 °C (-40 to 212 °F) -26 to 204 °C (-15 to 400 °F) -54 to 107 °C (-65 to 225 °F) -54 to 107 °C (-65 to 225 °F) -54 to 107 °C (-65 to 225 °F)
<u>Other Ratings</u>	
Corrosion protection	MP10-20 - 960 hr salt spray per ASTM b117 (gmp10-20x)
Properties	

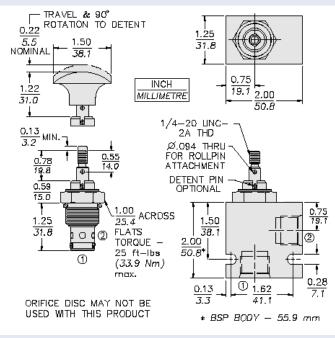
Mechanical pull effort required7.3 kg (16 lb)
10.4 kg (23 lb)• Note: Initial
10.4 kg (23 lb)MaterialsSteel with hardened work surfaces, zinc plated exposed surfaces.Unit weight0.11 kg (0.25 lb)Internal wetted surface area82 cm² (12.7 in²)



Performance



Dimensions



Installation Specifications

Cavity	VC10-2
Cartridge installation torque	32.5 to 35.3 N-m (24 to 26 ft-lb)
Orientation restriction	None

Accessories

Seal kit

SK10-2N-T	- Note: Buna N
SK10-2V-T	- Note: Fluorocarbon
SK10-2P-T	- Note: Polyurethane



Order Code

MP10-20	
OptionSealsThreaded Shaft/ Spring ReturnNThreaded Shaft/ Lock Position PinVBlack Plastic Knob/ Spring ReturnPortingBlack Plastic Knob/ Lock Position Pin0Cartridge OnlyLock Position PinBlack Plastic Knob/ Lock Position PinBlack Plastic Knob/ Spring ReturnBlack Plastic Knob/ Spring ReturnBlack Plastic Knob/ Lock Position PinBlack Plastic K	

Model Options

MP10-20F-H-J

F Adjustment

DESCRIPTION
Black Plastic Knob with Lock Position Pin
Red Plastic Knob with Spring Return
Black Plastic Knob with Spring Return
Red Plastic Knob with Lock Position Pin
Threaded Shaft with Lock Position Pin
Threaded Shaft with Spring Return

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
2B	Aluminum BSPP 1/4" (2)
3B	Aluminum BSPP 3/8" (3)
4B	Aluminum BSPP 1/2" (4)
4BD	Ductile Iron BSPP 1/2" (4)

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
Р	Polyurethane
U	PPDI Urethane