port 2 is closed. All ports are closed in transition.

• May be fully pressurized at all ports.

Optional lock-down bracket.Heavy-duty construction.

• Industry common cavity.

• Two-position detent or infinite friction lock ordered separately.

The MR10-31 is a manually operated, 3-way, 2-position, screw-in, cartridge style,

directional valve with adaptability to a variety of adjustment operators (order separately).

In extreme counterclockwise position, ports 1 and 2 are open while port 3 is closed. In extreme clockwise position (90 degree rotation of stem), ports 1 and 3 are open while

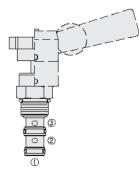
Description

Operation

Features



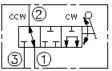
Overview



Symbol



TRANSITION:



Ratings

Pressure	Ratings
	-

Pressure rating	241 bar (3500 psi)
<u>Flow Ratings</u> Maximum internal leakage	164 ml/min (10 in ³) - Note: At 241 bar (3500 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) - Note: With buna N seals - Note: With viton seals - Note: With polyurethane seals
Storage temperature Ambient temperature	-60 to 71 °C (-76 to 160 °F) -60 to 71 °C (-76 to 160 °F)

Operating Parameters

Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination	20/18/14 per ISO 4406
level	

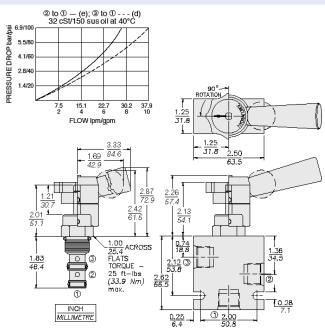
Properties

Unit weight	0.15 kg (0.33 lb)
Internal wetted surface area	141 cm² (21.8 in²)





Performance



Installation Specifications

Cavity	VC10-3
Cartridge installation torque	32.5 to 35.3 N-m (24 to 26 ft-lb)
Orientation restriction	None

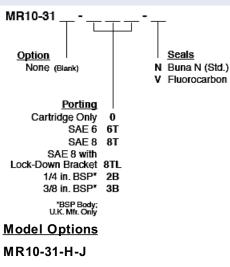
Accessories

Seal kit

SK10-3X-MM - Note: X=seal option



Order Code



H Line Body

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

J Seal

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