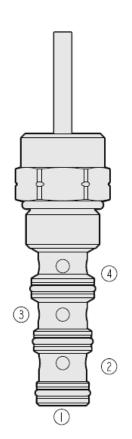


Overview



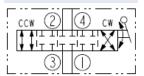
Description

The MR10-47X is a direct acting, manual rotary, spool type, 3 position, 4 way directional control valve with adaptability to a variety of adjustment operators (order separately). It is a screw in cartridge type for use with general purpose hydraulic fluids.

Operation

Three positions: centered, $45 \hat{A}^\circ$ counterclockwise, and $45 \hat{A}^\circ$ clockwise. In the center position all ports are closed. In the $45 \hat{A}^\circ$ counterclockwise from center position, ports 1 and 4 are open while ports 2 and 3 are open. In the $45 \hat{A}^\circ$ clockwise from center position, ports 1 and 2 are open while ports 3 and 4 are open. All ports are closed in transition.

Symbol



Ratings

Pressure Ratings

Pressure rating 241 bar (3500 psi)

Flow Ratings
Flow rating
See chart

Maximum internal leakage 164 ml/min (10 in³) - **Note**: At 241 bar (3500 psi)

Temperature Ratings

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)
-60 to 71 °C (-76 to 160 °F)

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-54 to 107 °C (-65 to 225 °F)
-54 to 107 °C (-76 to 160 °F)

Storage temperature -60 to 71 °C (-76 to 160 °F) Ambient temperature -60 to 90 °C (-76 to 194 °F)

Other Ratings

Corrosion protection 960 hr salt spray per ASTM b117 (gmr10-47x)



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

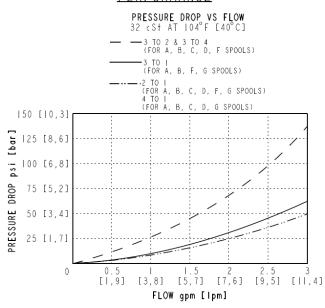
level

Properties

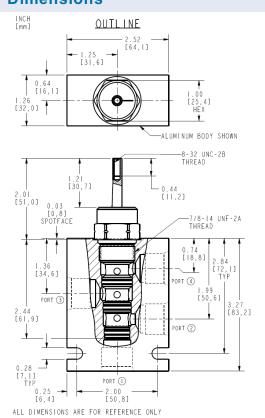
Unit weight 0.17 kg (0.37 lb) Internal wetted surface area 175 cm 2 (27.2 in 2)

Performance

<u>PERFORMANCE</u>



Dimensions





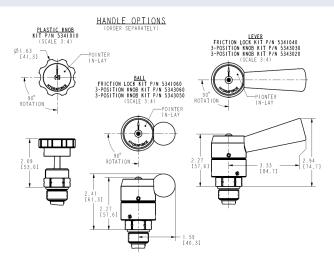
Installation Specifications

Cavity VC10-4

Cartridge installation torque 32.5 to 35.3 N-m (24 to 26 ft-lb)

Orientation restriction None

Accessories



Seal kit

SK10-4N-MMM
SK10-4V-MMM
SK10-4P-MMM
SK10-4U-OOO

- Note: BUNA-N
- Note: Fluorocarbon
- Note: Polyurethane
- Note: Urethane

3-position knob kit: P/N 5343020

Handle option

Handle Options (order separately)

Kit: P/N 5341010 - Note: Plastic knob

Friction lock kit: P/N 5341060 - Note: Ball

3-position knob kit: P/N 5343060 - Note: Ball

3-position knob kit: P/N 5343050 - Note: Ball

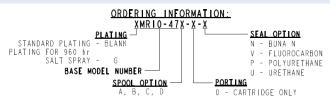
Friction lock kit: P/N 5341040 - Note: Lever

3-position knob kit: P/N 5343030 - Note: Lever

- Note: Lever



Order Code



Model Options

MR10-47C-H-J

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6

J Seal

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