**MR10-47C Manual Rotary, 4-Way, 3-Pos., Closed Center**

**DESCRIPTION**
Manually-operated four-way, three-position directional valve, with adaptability to a variety of adjustment operators (ordered separately), in a variety of spool configurations.

**OPERATION**
Three positions: centered, 45° counterclockwise, and 45° clockwise. In the center position all ports are closed. In the 45° counterclockwise from center position, ports ① and ③ are open while ports ② and ④ are open. In the 45° clockwise from center position, ports ① and ② are open while ports ③ and ④ are open. All ports are closed in transition.

**FEATURES**
- Three-position detent, friction lock (with detented neutral), or spring return operators may be ordered separately.
- May be fully pressurized at all ports.
- Optional lock-down bracket.
- Heavy-duty construction.
- Industry common cavity.

**RATINGS**
- **Operating Pressure**: 240 bar (3500 psi)
- **Max. Flow**: See Performance Chart
- **Internal Leakage**: 164 cc/minute (10 cu. in./minute) at 240 bar (3500 psi)
- **Temperature**: -40 to 120°C with standard Buna N seals
- **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 position restrictions; See page 9.020.1
- **Cavity**: VC10-4; See page 9.110.1
- **Cavity Tool**: CT10-4XX; See page 8.600.1
- **Seal Kit**: SK10-4X-MMM; See page 8.650.1
- **Lock-Down Bracket Kit**: Part Number 5399000

**SYMBOLS**

**USASI/ISO:**

**TRANSITION:**

**PERFORMANCE** (Cartridge Only)

<table>
<thead>
<tr>
<th>FLOW lpm/gpm</th>
<th>PRESSURE DROP bar/psi</th>
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<tbody>
<tr>
<td>1.5</td>
<td>10.3/150</td>
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<tr>
<td>1.9</td>
<td>9.6/125</td>
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<tr>
<td>2.5</td>
<td>9.0/100</td>
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<tr>
<td>3.1</td>
<td>8.5/100</td>
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<tr>
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<td>15.5</td>
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<tr>
<td>16.5</td>
<td>1.0/100</td>
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<tr>
<td>17.5</td>
<td>0.5/100</td>
</tr>
</tbody>
</table>

32 cSt/150 ssu oil at 40°C
**DIMENSIONS**

**MATERIALS**

**Cartridge:** Weight: 0.17 kg. (0.37 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Buna N O-rings and Fluorocarbon back-ups standard.

**Standard Ported Body:** Weight: 0.34 kg. (0.75 lbs.)
Anodized high-strength 6061 T6 aluminum alloy,
rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.010.1

**Lever-Type Handle:** (Sold Separately)
Weight: 0.18 kg. (0.38 lbs.)
Steel with hardened work surfaces. Zinc-plated exposed surfaces. Plastic lever arm.

**TO ORDER**

**Option**
None (Blank)

**Seals**
N Buna N (Std.)
V Fluorocarbon
P Polyurethane

**Porting**
Cartridge Only 0
SAE 6 6T
SAE 8 8T
SAE 8 with Lock-Down Bracket 8TL
1/4 in. BSP* 2B
3/8 in. BSP* 3B

*BSP Body; U.K. Mfr. Only

NOTE: To order standard operator kits, refer to pages 4.770.1 and 4.770.2

4.922.2