M21 Series

- **3/8" NPT**
- Stainless Steel Body
  Type 316
- 3-Way Piloted
  Diaphragm
- Diverting

**Materials**

<table>
<thead>
<tr>
<th>Orifice:</th>
<th>Seal:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pilot</td>
<td>Nitrile, Viton® , Ethylene Propylene</td>
</tr>
<tr>
<td>Main</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

**Electrical**

<table>
<thead>
<tr>
<th>Standard Housing:</th>
<th>Optional Housings:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encapsulated Waterproof Conduit (NEMA 4/4X)</td>
<td>Metallic Conduit, Explosion-proof (NEMA 7), Grommet, Open Frame, Junction Box (single or dual knockouts), DIN; Contact GC Valves Customer Service for others.</td>
</tr>
</tbody>
</table>

**Standard Voltages:**

- 24, 120, 240 AC 60 Hz; 50 Hz available
- 6, 12, 24 DC
- Contact GC Valves Customer Service for Additional Voltages.

**Voltage Tolerance:** ±10% of applicable voltage

**Coil Classes:** F, H, N

**Standard Lead Length:** 24 inch

**Operating Temperature**

Ambient (Nominal): 32°F to 125°F

**Mounting Position:** Any

**Approvals**

Agency: UL Recognized, CSA Approved

* Not available for all variations

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**Dimensions/Weight**

| Weight (lbs.) | 6.0 |

**Dimensions**

- 8.35 (3/2 DC)
- 7.64 (3/2 AC)
- 6.26 (3/2 DC)
- 5.62 (3/2 AC)
- 6.18 (3/3 DC)
- 5.56 (3/3 AC)
- 8.05 (3/3 DC)
- 7.38 (3/3 AC)

**GC Valves Customer Service:** 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
**Valve Selection List**

**Diverting**

![Diverting Valve Diagram]

**Energized**

![Energized Valve Diagram]

**De-Energized**

![De-Energized Valve Diagram]

**Coil Data**

<table>
<thead>
<tr>
<th>Coi Family</th>
<th>Frequency (Hz)</th>
<th>Nominal Power (VA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>14</td>
</tr>
</tbody>
</table>

**Part Numbering**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td>G</td>
<td>F</td>
<td>0</td>
<td>2</td>
<td>C</td>
<td>7</td>
<td>C</td>
<td>G</td>
<td>5</td>
</tr>
</tbody>
</table>

- **Series**
  - M21
- **Operating Mode**
  - 5: Diverting
- **Housing**
  - G: Conduit
- **Coil Class**
  - F: Class F
  - H: Class H
- **Voltage**
  - 02: 120/60 110/50
- **Seal Material**
  - E: EPR
  - J: Nitrile
  - L: Viton
- **Body Material**
  - 7: 316 SS
- **Pipe Connection**
  - C: 3/8" NPT
- **Orifice Size**
  - G5: 3/4"

*See the “Engineering Guide” for additional voltages, variations and options.*

**Pipe Size**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>Operating Pressure Differential (psi)</th>
<th>Maximum</th>
<th>Model Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT</td>
<td>C V</td>
<td>Air/Gas</td>
<td>Water</td>
<td>Light Oil</td>
</tr>
<tr>
<td>3/8</td>
<td>6.7 4</td>
<td>150</td>
<td>150</td>
<td>100</td>
</tr>
<tr>
<td>3/4</td>
<td>6.7 4</td>
<td>150</td>
<td>150</td>
<td>100</td>
</tr>
</tbody>
</table>

*Class H Coil Recommended for Steam and Other High Temperature Applications*