S31 Series

- 1/8" NPT
- Brass Body
- 3-Way Direct Acting
- Normally Closed
- Free Exhaust

### Materials

<table>
<thead>
<tr>
<th>Orifices</th>
<th>Seals:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>Nitrile, Viton®, Ethylene Propylene or Teflon®</td>
</tr>
<tr>
<td>Main</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

### Electrical

<table>
<thead>
<tr>
<th>Standard Housing:</th>
<th>Encapsulated Waterproof Conduit (NEMA 4/4X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional Housings:</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>
<tr>
<td>Standard Voltages:</td>
<td>24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.</td>
</tr>
<tr>
<td>Voltage Tolerance:</td>
<td>±10% of applicable voltage</td>
</tr>
<tr>
<td>Coil Classes:</td>
<td>F, H, N</td>
</tr>
<tr>
<td>Standard Lead Length:</td>
<td>24 inch</td>
</tr>
</tbody>
</table>

### Operating Temperature

- Ambient (Nominal): 32°F to 125°F

### Mounting

- Position: Any

### Approvals*

- Agency: UL Listed, UL Recognized, CSA Approved

* Not available for all variations.

### Dimensions/Weight

| Weight (lbs.) | 1.0 |

GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
**S317 – 1/8" NPT, Brass Body, Normally Closed, Free Exhaust**

**Valve Selection List**

<table>
<thead>
<tr>
<th>Orifice Size IN</th>
<th>CV</th>
<th>Operating Pressure Differential (psi)</th>
<th>Power Consumption (Watts)</th>
<th>Model Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8</td>
<td></td>
<td>Maximum</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>3/64</td>
<td>.05</td>
<td>170</td>
<td>170</td>
<td>170</td>
</tr>
<tr>
<td>1/8</td>
<td>.08</td>
<td>120</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>3/32</td>
<td>.20</td>
<td>65</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td>1/8</td>
<td>.27</td>
<td>40</td>
<td>40</td>
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</tr>
<tr>
<td>5/32</td>
<td>.41</td>
<td>25</td>
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* Class H Coil Recommended for High Temperature Applications

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## Coil Data

<table>
<thead>
<tr>
<th>Koil Family</th>
<th>Type</th>
<th>Size</th>
</tr>
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<tbody>
<tr>
<td>All</td>
<td>S3</td>
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**Frequency (Hz)**

<table>
<thead>
<tr>
<th></th>
<th>60</th>
<th>50</th>
</tr>
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</table>

**Nominal Power (VA)**

<table>
<thead>
<tr>
<th></th>
<th>Inrush</th>
<th>Holding</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>36</td>
<td>16</td>
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<td></td>
<td>36</td>
<td>17</td>
</tr>
</tbody>
</table>

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**Part Numbering**

<table>
<thead>
<tr>
<th>S 31</th>
<th>7</th>
<th>G</th>
<th>F</th>
<th>02</th>
<th>C</th>
<th>8</th>
<th>A</th>
<th>V1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S31</strong></td>
<td>7: Normally Closed (Free Exhaust)</td>
<td>G: Conduit</td>
<td>F: Class F</td>
<td>02: 120/60 110/50</td>
<td>C: EPR</td>
<td>N: Nitrile</td>
<td>V: Viton</td>
<td>T: Teflon</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Orifice Size (Main x Top)</th>
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<tbody>
<tr>
<td>V1: 3/64&quot; x 1/16&quot;</td>
</tr>
<tr>
<td>C5: 1/16&quot; x 1/16&quot;</td>
</tr>
<tr>
<td>C9: 3/32&quot; x 3/32&quot;</td>
</tr>
<tr>
<td>V3: 1/8&quot; x 3/32&quot;</td>
</tr>
<tr>
<td>V7: 5/32&quot; x 3/32&quot;</td>
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*See the “Engineering Guide” for additional voltages, variations and options.*

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