### S30 Series

- **1/4" NPT**
- **Brass Body**
- **2-Way Direct Acting**
- **Normally Closed**

<table>
<thead>
<tr>
<th>Materials</th>
<th>Seals:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nitrile, FKM, Ethylene Propylene, PTFE, Rulon</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th>Orifice:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Brass (Stainless orifice is available)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th>Standard Housing:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Encapsulated Waterproof Conduit (NEMA 4X)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th>Optional Housings:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metal Conduit, Explosion-Proof (NEMA 7), Grommet</td>
</tr>
<tr>
<td></td>
<td>Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th>Standard Voltages:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24, 120, 240, AC, 60 and/or 50 Hz. Available</td>
</tr>
<tr>
<td></td>
<td>6, 12, 24 DC</td>
</tr>
<tr>
<td></td>
<td>Contact GC Valves Customer Svc. For Additional Voltages</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th>Voltage Tolerance:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>± 10% of applicable voltage</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th>Coil Classes:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F, H, N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th>Standard Lead Length:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24 inches</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>Ambient (Nominal):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32°F to 125°F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mounting</th>
<th>Position:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Any</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approvals*</th>
<th>Agency:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UL Safety, UL Listed, UL Recognized, CSA Approved</td>
</tr>
</tbody>
</table>

*Not available for all variations

### Dimensions / Weight

| Weight (Lbs.) | 1.1 |

### Diagram

- 1/4-B-301-1

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)
### Valve Selection List

#### Normal Closed

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>Operating Pressure Differential (PSI)</th>
<th>Maximum</th>
<th>Seal Material</th>
<th>Model Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT</td>
<td>In.</td>
<td>Air/Gas / Water / Light Oil / Steam*</td>
<td></td>
<td>°F</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AC / DC / AC / DC / AC / DC / AC / DC</td>
<td></td>
<td>AC / DC</td>
<td></td>
</tr>
</tbody>
</table>

- **1/4" NPT, Brass Body, Normally Closed**
- **Valve Selection List**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/32</td>
<td>.03</td>
<td>0</td>
<td>2400</td>
<td>2400</td>
<td>2400</td>
<td>2400</td>
<td>150</td>
<td>150</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BC1</td>
</tr>
<tr>
<td>3/64</td>
<td>.05</td>
<td>0</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>150</td>
<td>150</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BC3</td>
</tr>
<tr>
<td>1/16</td>
<td>.10</td>
<td>0</td>
<td>700</td>
<td>700</td>
<td>300</td>
<td>300</td>
<td>150</td>
<td>150</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BC5</td>
</tr>
<tr>
<td>5/64</td>
<td>.15</td>
<td>0</td>
<td>500</td>
<td>240</td>
<td>500</td>
<td>240</td>
<td>150</td>
<td>150</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BC7</td>
</tr>
<tr>
<td>3/32</td>
<td>.21</td>
<td>0</td>
<td>400</td>
<td>200</td>
<td>400</td>
<td>200</td>
<td>150</td>
<td>150</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BC9</td>
</tr>
<tr>
<td>7/64</td>
<td>.29</td>
<td>0</td>
<td>350</td>
<td>170</td>
<td>350</td>
<td>170</td>
<td>150</td>
<td>150</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BE1</td>
</tr>
<tr>
<td>5/32</td>
<td>.44</td>
<td>0</td>
<td>200</td>
<td>140</td>
<td>200</td>
<td>140</td>
<td>150</td>
<td>140</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BE7</td>
</tr>
<tr>
<td>9/32</td>
<td>.65</td>
<td>0</td>
<td>100</td>
<td>70</td>
<td>100</td>
<td>70</td>
<td>150</td>
<td>70</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BE7</td>
</tr>
<tr>
<td>1/8</td>
<td>.85</td>
<td>0</td>
<td>50</td>
<td>20</td>
<td>50</td>
<td>20</td>
<td>100</td>
<td>70</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BE7</td>
</tr>
<tr>
<td>9/32</td>
<td>1.0</td>
<td>0</td>
<td>35</td>
<td>15</td>
<td>35</td>
<td>15</td>
<td>35</td>
<td>15</td>
<td>295</td>
<td>EPR</td>
<td>10 10</td>
<td>S301GF02C8BE7</td>
</tr>
</tbody>
</table>

**Note:**
- Air/Gas: Minimum 2400 PSI, Maximum 2400 PSI
- Water: Minimum 1050 PSI, Maximum 1050 PSI
- Light Oil: Minimum 700 PSI, Maximum 700 PSI
- Steam*: Minimum 50 PSI, Maximum 50 PSI
- Power Consumption: 10 watts
- Model Code: S301GF02C8BC1

---

**GC Valves Customer Service:** 800-828-0484 (7:30 AM to 5:00 PM ET)

1/4-8-301-2
## Valve Selection List

### Normally Closed

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>.03</td>
<td>Minimum: Air/Gas</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>3/64</td>
<td>.05</td>
<td>Minimum: Water</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>1/16</td>
<td>.10</td>
<td>Minimum: Light Oil</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>5/64</td>
<td>.15</td>
<td>Minimum: Steam*</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>3/32</td>
<td>.21</td>
<td>Maximum: Air/Gas</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>1/8</td>
<td>.36</td>
<td>Maximum: Water</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>5/32</td>
<td>.44</td>
<td>Maximum: Light Oil</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>1/4</td>
<td>.65</td>
<td>Maximum: Steam*</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>0.15</td>
<td>.91</td>
<td>Maximum: Air/Gas</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
</tbody>
</table>

### Energized

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>.03</td>
<td>Minimum: Air/Gas</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>3/64</td>
<td>.05</td>
<td>Minimum: Water</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>1/16</td>
<td>.10</td>
<td>Minimum: Light Oil</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>5/64</td>
<td>.15</td>
<td>Minimum: Steam*</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>3/32</td>
<td>.21</td>
<td>Maximum: Air/Gas</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>1/8</td>
<td>.36</td>
<td>Maximum: Water</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>5/32</td>
<td>.44</td>
<td>Maximum: Light Oil</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>1/4</td>
<td>.65</td>
<td>Maximum: Steam*</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>0.15</td>
<td>.91</td>
<td>Maximum: Air/Gas</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
</tbody>
</table>

### De-Energized

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>.03</td>
<td>Minimum: Air/Gas</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>3/64</td>
<td>.05</td>
<td>Minimum: Water</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>1/16</td>
<td>.10</td>
<td>Minimum: Light Oil</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>5/64</td>
<td>.15</td>
<td>Minimum: Steam*</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>3/32</td>
<td>.21</td>
<td>Maximum: Air/Gas</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>1/8</td>
<td>.36</td>
<td>Maximum: Water</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>5/32</td>
<td>.44</td>
<td>Maximum: Light Oil</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>1/4</td>
<td>.65</td>
<td>Maximum: Steam*</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
<tr>
<td>0.15</td>
<td>.91</td>
<td>Maximum: Air/Gas</td>
<td>AC</td>
<td>DC</td>
<td>AC</td>
<td>DC</td>
</tr>
</tbody>
</table>

---

1/4-B-301-3

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)
S301 - 1/4" NPT, Brass Body, Normally Closed

## 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>S</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>G</td>
<td>F</td>
<td>0</td>
<td>2</td>
<td>C</td>
<td>8</td>
<td>B</td>
<td>C</td>
<td>1</td>
</tr>
</tbody>
</table>

- **Series**  S30
- **Operating Mode**  1: Normally Closed
- **Housing**  G: Conduit
- **Coil Class**  F: Class F  H: Class H  N: Class N
- **Voltage**  02: 120/60, 110/50
- **Seal Material**  C: EPR  V: FKM  R: Rulon  T: PTFE
- **Body Material**  8: Brass
- **Pipe Connection**  B: 1/4" NPT

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

## Coil Data

<table>
<thead>
<tr>
<th>Coil Family</th>
<th>Frequency (Hz)</th>
<th>Nominal Power (VA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td>All</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1/4-B-301-4