3/8" NPT
Brass Body
2-Way Direct Acting
Normally Closed

Materials
Seals: Nitrile, Viton®, Ethylene Propylene, Teflon®, Rulon
Orifice: Stainless Steel

Electrical
Standard Housing: Encapsulated Waterproof Conduit (NEMA 4/4X)
Optional Housings: Metallic Conduit, Explosion-proof (NEMA 7), Grommet, Open Frame, Junction Box (single or dual knockouts), DIN; Contact GC Valves Customer Service for others.
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 Safety Shutoff, UL Listed, UL Recognized, CSA Approved, FM Certified

* Not available for all variations
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Dimensions/Weight

Weight (lbs.)
1.1

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

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

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GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
## Part Numbering

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**Series**: S31  
**Operating Mode**: 1: Normally Closed  
**Housing**: G: Conduit  
**Coil Class**: F: Class F  
**Material**: H: Class H  
**Voltage**: 02: 120/60  
**Material**: 110/50  
**Seal Material**: C: EPR  
**Body Material**: N: Nitrile  
**Pipe Connection**: V: Viton  
**Orifice Size**: R: Rulon  
**Material**: T: Teflon  
**Pipe**: 9: Forged Brass  
**Body**: C: 3/8" NPT  

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

## Coil Data

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3/8" NPT 
Brass Body 
2-Way Direct Acting 
Normally Closed

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<td>Orifice:</td>
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| Electrical | Standard Housing:             | Encapsulated Waterproof Conduit (NEMA 4/4X)         |
|           | Optional Housings:            | Metallic Conduit, Explosion-proof (NEMA 7), Grommet, Open Frame, Junction Box (single or dual knockouts), DIN; Contact GC Valves Customer Service for others. |
| 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 Safety Shut-off, UL Listed, UL Recognized, CSA Approved, FM Certified |

* Not available for all variations

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Dimensions/Weight

Weight (lbs.)

1.3

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

### Normally Closed

**S301 - 3/8" NPT, Brass Body, Normally Closed**

**Valve Selection List**

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

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GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
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<th>Coil Class*</th>
<th>Voltage*</th>
<th>Seal Material</th>
<th>Body Material</th>
<th>Pipe Connection</th>
<th>Orifice Size</th>
</tr>
</thead>
</table>

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

## Coil Data

<table>
<thead>
<tr>
<th>Coil Family</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>S4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>60</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power (VA)</td>
<td>Inrush</td>
<td>46</td>
</tr>
<tr>
<td></td>
<td>Holding</td>
<td>18</td>
</tr>
</tbody>
</table>
S20 Series

- 3/8" NPT
- Brass Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

<table>
<thead>
<tr>
<th>Materials</th>
<th>Seals:</th>
<th>Nitrile, Viton®, Ethylene Propylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orifice:</td>
<td>Pilot</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td></td>
<td>Main</td>
<td>Brass Ø 5/8&quot;</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 |
| Standard Lead Length: | 24 inch |

**Mounting Position:** Any

**Approvals**

| Agency: | UL Listed, UL Recognized, CSA Approved |

* Not available for all variations

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**Dimensions/Weight**

| Weight (lbs.) | 2.0 |

---

GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
S201 - 3/8" 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>
</tr>
</thead>
<tbody>
<tr>
<td>NPT</td>
<td>IN</td>
<td>C V</td>
<td>Air/Gas AC</td>
<td>DC</td>
<td>Water AC</td>
<td>DC</td>
<td>Light Oil AC</td>
</tr>
<tr>
<td>3/8</td>
<td>5/8</td>
<td>4.3</td>
<td>0</td>
<td>140</td>
<td>90</td>
<td>100</td>
<td>50</td>
</tr>
<tr>
<td>5/8</td>
<td>140</td>
<td>5/8</td>
<td>90</td>
<td>60</td>
<td>90</td>
<td>70</td>
<td>—</td>
</tr>
<tr>
<td>5/8</td>
<td>140</td>
<td>90</td>
<td>90</td>
<td>70</td>
<td>—</td>
<td>—</td>
<td>230</td>
</tr>
</tbody>
</table>

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

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>2</td>
<td>0</td>
<td>1</td>
<td>G</td>
<td>F</td>
<td>0</td>
<td>2</td>
<td>C</td>
<td>5</td>
<td>C</td>
<td>G</td>
<td>4</td>
</tr>
</tbody>
</table>

Series: S20
Operating Mode: 1: Normally Closed
Housing: G: Conduit
Coil Class: F: Class F
Body Material: 5: Brass
Pipe Connection: C: 3/8" NPT
Orifice Size: G4: 5/8"

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>Size</td>
<td>60</td>
</tr>
<tr>
<td>All</td>
<td>S4</td>
<td>Inrush</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Holding</td>
</tr>
</tbody>
</table>

GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
**S21 Series**

- 3/8" NPT
- Brass Body
- 2-Way Piloted Diaphragm
- Normally Closed

### Materials

<table>
<thead>
<tr>
<th>Seals:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrile, Viton®, Ethylene Propylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Orifice:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pilot</td>
</tr>
<tr>
<td>Main</td>
</tr>
<tr>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Brass Ø 5/8&quot;</td>
</tr>
</tbody>
</table>

### Electrical

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

<table>
<thead>
<tr>
<th>Optional Housings:</th>
</tr>
</thead>
<tbody>
<tr>
<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>

<table>
<thead>
<tr>
<th>Standard Voltages:</th>
</tr>
</thead>
<tbody>
<tr>
<td>24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.</td>
</tr>
</tbody>
</table>

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

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

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

### Operating Temperature

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

### Mounting Position:

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

### Approvals*

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

* Not available for all variations

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### Dimensions/Weight

<table>
<thead>
<tr>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
</tr>
</tbody>
</table>

---

GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
**S211 - 3/8" NPT, Brass Body, Normally Closed**

---

### Valve Selection List

**Normally Closed**

![Diagram](chart)

#### Operating Pressure Differential (psi)

- **Maximum**
  - Air/Gas: 200
  - Water: 150
  - Light Oil: 100
  - Steam*: 295

- **Minumum**
  - Air/Gas: 4
  - Water: 4
  - Light Oil: 4
  - Steam*: 4

#### Power Consumption (Watts)

- **Energized**
  - EPR: 8
  - Nitrile: 8
  - Viton: 10

- **De-Energized**
  - EPR: 10

#### Model Code

- **120V/60HZ — 110V/50HZ**
- **Brass Body**

---

### 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>2</td>
<td>1</td>
<td>G</td>
<td>F</td>
<td>0</td>
<td>2</td>
<td>C</td>
<td>5</td>
<td>C</td>
<td>G</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

- **Series**: S21
- **Operating Mode**: 1: Normally Closed
- **Housing**: G: Conduit
- **Coil Class**: F: Class F
- **Voltage**: H: Class H
- **Seal Material**: 02: EPR
- **Body Material**: 120/60 110/50
- **Pipe Connection**: C: Brass
- **Orifice Size**: G: 3/8" NPT

---

### Coil Data

<table>
<thead>
<tr>
<th>Coil Family</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency (Hz)</td>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td>Nominal Power (VA)</td>
<td>Inrush</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>Holding</td>
<td>13</td>
</tr>
</tbody>
</table>

---

*Class H Coil Recommended for Steam and Other High Temperature Applications*
**S21 Series**

- **High Performance**
- **3/8" NPT**
- **Brass Body**
- **2-Way Piloted Diaphragm**
- **Normally Closed**

<table>
<thead>
<tr>
<th>Materials</th>
<th>Seals:</th>
<th>Viton®, Teflon®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orifice:</td>
<td>Pilot</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Main:</td>
<td></td>
<td>Stainless Steel Ø 1/2&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<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>
<td></td>
</tr>
<tr>
<td>Standard Voltages:</td>
<td>24, 120, 240 AC 60 Hz; 50 Hz available Contact GC Valves Customer Service for Additional Voltages.</td>
<td></td>
</tr>
<tr>
<td>Voltage Tolerance:</td>
<td>±10% of applicable voltage</td>
<td></td>
</tr>
<tr>
<td>Coil Classes:</td>
<td>F, H, N</td>
<td></td>
</tr>
<tr>
<td>Standard Lead Length:</td>
<td>24 inch</td>
<td></td>
</tr>
</tbody>
</table>

| Operating Temperature | Ambient (Nominal): | 32°F to 125°F |
| Mounting Position:    | ± 45º From Vertical |
| Approvals* | Agency: | UL Listed, UL Recognized, CSA Approved |

* Not available for all variations

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### Dimensions/Weight

<table>
<thead>
<tr>
<th>Weight (lbs.)</th>
<th>2.5</th>
</tr>
</thead>
</table>

**Body Code 4**

**Body Code 2**

**GC Valves Customer Service:** 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
S211 - High Performance, 3/8" NPT, Brass Body, Normally Closed

Valve Selection List

Normally Closed

![Diagram of Normally Closed Valve]

Energized

De-Energized

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>Operating Pressure Differential (psi)</th>
<th>Power Consumption (Watts)</th>
<th>Model Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT</td>
<td>IN</td>
<td>C_v</td>
<td>Minimum</td>
<td>Maximum</td>
</tr>
<tr>
<td>3/8</td>
<td>1/2</td>
<td>3.3</td>
<td>1</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>1/2</td>
<td>3.3</td>
<td>1</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>1/2</td>
<td>3.3</td>
<td>10</td>
<td>—</td>
</tr>
</tbody>
</table>

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

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>2</td>
<td>1</td>
<td>1</td>
<td>G</td>
<td>F</td>
<td>0</td>
<td>2</td>
<td>K</td>
<td>4</td>
<td>C</td>
<td>G</td>
<td>1</td>
</tr>
</tbody>
</table>

Series
Operating Mode
Housing*
Coil Class*
Voltage*
Seal Material
Body Material
Pipe Connection
Orifice Size
1: Normally Closed
G: Conduit
F: Class F
H: Class H
02: 120/60
110/50
K: Viton
T: Teflon
4: Forged Brass
2: Brass
C: 3/8" 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>Size</td>
<td>60</td>
</tr>
</tbody>
</table>

GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
S40 Series

- 3/8" NPT
- Brass Body
- 2-Way Piloted Piston
- Normally Closed

<table>
<thead>
<tr>
<th>Materials</th>
<th>Seals:</th>
<th>Nitrile, Viton®, Teflon®, Ethylene Propylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orifice: Pilot</td>
<td>Main</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stainless Steel Ø 3/8&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<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>
<td></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 Safety Shutoff, UL Listed, UL Recognized, CSA Approved, FM Certified |

* Not available for all variations

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Dimensions/Weight

Weight (lbs.): 1.8

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

### Normally Closed

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>Operating Pressure Differential (psi)</th>
<th>Material</th>
<th>Power Consumption (Watts)</th>
<th>Model Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>1.5</td>
<td>AC 0 300 150 300 150</td>
<td>EPR</td>
<td>10 10</td>
<td>S401G02C9CF5</td>
</tr>
<tr>
<td>3/8</td>
<td>0</td>
<td>DC 0 300 150 300 150</td>
<td>Nitrile</td>
<td>10 10</td>
<td>S401G02N9CF5</td>
</tr>
<tr>
<td>3/8</td>
<td>1.5</td>
<td>AC 0 300 150 300 150</td>
<td>Viton</td>
<td>10 10</td>
<td>S401G02V9CF5</td>
</tr>
<tr>
<td>3/8</td>
<td>0</td>
<td>DC 0 300 150 300 150</td>
<td>Teflon</td>
<td>10 10</td>
<td>S401G02T9CF5</td>
</tr>
<tr>
<td>3/8</td>
<td>1.5</td>
<td>AC 0 300 150 300 150</td>
<td>EPR**</td>
<td>10 10</td>
<td>S401G02E9CF5</td>
</tr>
<tr>
<td>3/8</td>
<td>0</td>
<td>DC 0 300 150 300 150</td>
<td>Teflon**</td>
<td>10 9</td>
<td>S401G02S9CF5</td>
</tr>
</tbody>
</table>

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

### 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>4</td>
<td>0</td>
<td>1</td>
<td>G</td>
<td>F</td>
<td>0</td>
<td>2</td>
<td>C</td>
<td>9</td>
<td>C</td>
<td>F</td>
<td>5</td>
</tr>
</tbody>
</table>

**Series** | Operating Mode | Housing* | Coil Class* | Voltage* | Seal Material | Body Material | Pipe Connection | Orifice Size
---|---|---|---|---|---|---|---|---

* 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>
<th>Inrush</th>
<th>Holding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type: S4</td>
<td>60 50</td>
<td>46 46</td>
<td>20 21</td>
<td></td>
</tr>
</tbody>
</table>

**For Steam Service**

GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
- High Pressure
- 3/8" NPT
- Brass Body
- 2-Way Piloted Diaphragm
- Normally Closed

<table>
<thead>
<tr>
<th>Materials</th>
<th>Seals:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orifice:</td>
<td>Pilot Stainless Steel</td>
</tr>
<tr>
<td>Main:</td>
<td>Stainless Steel Ø 1/2&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Housing:</td>
<td>Encapsulated Waterproof Conduit (NEMA 4/4X)</td>
</tr>
<tr>
<td>Optional Housings:</td>
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</tr>
<tr>
<td>Standard Voltages:</td>
<td>24, 120, 240 AC 60 Hz; 50 Hz available Contact GC Valves Customer Service for Additional Voltages.</td>
</tr>
<tr>
<td>Voltage Tolerance:</td>
<td>±10% of applicable voltage</td>
</tr>
<tr>
<td>Coイル 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 Recognized |

* Not available for all variations

Dimensions/Weight

<table>
<thead>
<tr>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
</tr>
</tbody>
</table>

Dimensions (inches):
- Height: 2.40
- Width: 1.61
- Depth: 3.66
- Orifice: 0.58
- Port: 2.16

GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
H211 - High Pressure, 3/8" NPT, Brass Body, Normally Closed

**Valve Selection List**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>CV</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT</td>
<td>IN</td>
<td>C_v</td>
<td>Air/Gas</td>
<td>Water</td>
</tr>
<tr>
<td>3/8</td>
<td>1/2</td>
<td>3.3</td>
<td>10</td>
<td>1400</td>
</tr>
</tbody>
</table>

**Operating Pressure Differential (psi):**
- AC: 1400 psi
- DC: 1400 psi

**Seal Material:**
- Viton/Teflon

**Max Fluid Temp. (°F):**
- AC: 230°F
- DC: 10°F

**Model Code:**
- 120V/60HZ — 110V/50HZ Shown
- H211GF02Z4CG1

**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>H</td>
<td>2</td>
<td>1</td>
<td>G</td>
<td>F</td>
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<td>2</td>
<td>Z</td>
<td>4</td>
<td>C</td>
<td>G</td>
<td>1</td>
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</tbody>
</table>

**Series**
- H21

**Operating Mode**
- 1: Normally Closed

**Housing**
- G: Conduit

**Coil Class**
- F: Class F

**Voltage**
- 02: 120/60 110/50

**Seal Material**
- Z: Viton/Teflon

**Body Material**
- 4: Brass

**Pipe Connection**
- C: 3/8" NPT

**Orifice Size**
- G1: 1/2"

* 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>Size</td>
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</table>

**GC Valves Customer Service:** 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
### S31 Series

3/8" NPT  
Stainless Steel Body  
2-Way Direct Acting  
Normally Closed

<table>
<thead>
<tr>
<th>Materials</th>
<th>Seals:</th>
<th>Nitrile, Viton®, Ethylene Propylene, Teflon®, Rulon</th>
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</thead>
<tbody>
<tr>
<td>Orifice:</td>
<td>Stainless Steel</td>
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</tbody>
</table>

#### Electrical

<table>
<thead>
<tr>
<th>Electrolysis</th>
<th>Standard Housing:</th>
<th>Encapsulated Waterproof Conduit (NEMA 4/4X)</th>
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</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>
<td></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>
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</tr>
<tr>
<td>Voltage Tolerance:</td>
<td>±10% of applicable voltage</td>
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<tr>
<td>Coil Classes:</td>
<td>F, H, N</td>
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<tr>
<td>Standard Lead Length:</td>
<td>24 inch</td>
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</tr>
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</table>

#### Operating Temperature

| Ambient (Nominal): | 32°F to 125°F |

#### Mounting

| Position: | Any |

#### Approvals*

| Agency: | UL Safety Shutoff, UL Listed, UL Recognized, CSA Approved, FM Certified |

* Not available for all variations  
® Registered Trademark of DuPont Co.

### Dimensions/Weight

| Weight (lbs.) | 1.1 |

---

**Dimensions**

**Weight (lbs.)**

1.1

---

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

**S311 - 3/8" NPT, Stainless Steel Body, Normally Closed**

#### Normally Closed

![Diagram of valve in Normally Closed position](image)

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<tr>
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<td>—</td>
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<td>60*</td>
<td>295</td>
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</tr>
</tbody>
</table>

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

---

G C Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)

3/8-S-311-2
## Part Numbering

<table>
<thead>
<tr>
<th>Series</th>
<th>Operating Mode</th>
<th>Housing*</th>
<th>Coil Class*</th>
<th>Voltage*</th>
<th>Seal Material</th>
<th>Body Material</th>
<th>Pipe Connection</th>
<th>Orifice Size</th>
</tr>
</thead>
</table>

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

## Coil Data

<table>
<thead>
<tr>
<th>Coil Family</th>
<th>Type</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
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<tbody>
<tr>
<td>Nominal Power (VA)</td>
<td>Inrush</td>
<td>36</td>
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<tr>
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<td>Holding</td>
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</tbody>
</table>
3/8" NPT
Stainless Steel Body
2-Way Direct Acting
Normally Closed

Materials
Seals: Nitrile, Viton®, Ethylene Propylene, Teflon®, Rulon
Orifice: Stainless Steel

Electrical
Standard Housing: Encapsulated Waterproof Conduit (NEMA 4/4X)
Optional Housings: Metallic Conduit, Explosion-proof (NEMA 7), Grommet, Open Frame, Junction Box (single or dual knockouts), DIN; Contact GC Valves Customer Service for others.
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 Safety Shut-off, UL Listed, UL Recognized, CSA Approved, FM Certified

* Not available for all variations
® Registered Trademark of DuPont Co.

Dimensions/Weight

Weight (lbs.)
1.3

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

## Normally Closed

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>Operating Pressure Differential (psi)</th>
<th>Seal Material</th>
<th>Power Consumption (Watts)</th>
<th>Model Code</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Maximum</td>
<td>Max Fluid Temp.</td>
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<td>Light Oil</td>
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</table>

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

---

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

3/8-S-301-2
# Part Numbering

<table>
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<th>G</th>
<th>F</th>
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<th>C</th>
<th>3</th>
<th>C</th>
<th>D</th>
<th>5</th>
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<tbody>
<tr>
<td>Series</td>
<td>Operating Mode</td>
<td>Housing*</td>
<td>Coil Class*</td>
<td>Voltage*</td>
<td>Seal Material</td>
<td>Body Material</td>
<td>Pipe Connection</td>
<td>Orifice Size</td>
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<td>S30</td>
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<td>02: 120/60</td>
<td>C: EPR</td>
<td>3: Stainless Steel</td>
<td>C: 3/8&quot; NPT</td>
<td>D5: 1/8&quot;</td>
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<td>H: Class H</td>
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<td>N: Nitrile</td>
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<td>E7: 1/4&quot;</td>
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<td>V: Viton</td>
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<td>F1: 9/32&quot;</td>
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* See the “Engineering Guide” for additional voltages, variations and options.

---

# Coil Data

<table>
<thead>
<tr>
<th>Coil Family</th>
<th>Type</th>
<th>Size</th>
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<tbody>
<tr>
<td>All</td>
<td>S4</td>
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<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>60</th>
<th>50</th>
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</thead>
<tbody>
<tr>
<td>Nominal Power (VA)</td>
<td>Inrush</td>
<td>46</td>
</tr>
<tr>
<td></td>
<td>Holding</td>
<td>18</td>
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</tbody>
</table>
- 3/8" NPT
- Stainless Steel Body
  Type 316
- 2-Way Zero Differential
  Piloted Diaphragm
- Normally Closed

**Dimensions/Weight**

| Weight (lbs.) | 2.0 |

**Materials**

- Seals: Nitrile, Viton®, Ethylene Propylene
- Orifice: Pilot, Main
- Stainless Steel, Stainless Steel Ø 5/8"

**Electrical**

- Standard Housing: Encapsulated Waterproof Conduit (NEMA 4/4X)
- Optional Housings: Metallic Conduit, Explosion-proof (NEMA 7), Grommet, Open Frame, Junction Box (single or dual knockouts), DIN; Contact GC Valves Customer Service for others.
- 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 Listed, UL Recognized, CSA Approved

*Not available for all variations*
S201 - 3/8" NPT, Stainless Steel Body-Type 316, Normally Closed

Valve Selection List

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>Operating Pressure Differential (psi)</th>
<th>Power Consumption (Watts)</th>
<th>Model Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT</td>
<td>CV</td>
<td>Maximum</td>
<td>AC DC</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Air/Gas/Water/Light Oil/Steam*</td>
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<td></td>
</tr>
<tr>
<td>3/8</td>
<td>5/8</td>
<td>4.3 0 140 90 100 50 90 90 70</td>
<td>295 EPR 10 10</td>
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<td>5/8</td>
<td>4.3 0 140 90 140 90 90 70</td>
<td>180 Nitrile 10 10</td>
<td>S201GF02J7CG4</td>
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<tr>
<td></td>
<td>5/8</td>
<td>4.3 0 140 90 140 90 90 70</td>
<td>230 Viton 10 10</td>
<td>S201GF02L7CG4</td>
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<tr>
<td>5/8</td>
<td>4.3 0</td>
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<td>50* 295 EPR 10</td>
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*Class H Coil Recommended for Steam and Other High Temperature Applications

Part Numbering

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<thead>
<tr>
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<th>4</th>
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<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
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</thead>
<tbody>
<tr>
<td>S</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>G</td>
<td>F</td>
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<td>2</td>
<td>E</td>
<td>7</td>
<td>C</td>
<td>G</td>
<td>4</td>
</tr>
</tbody>
</table>

Series Operating Mode Housing* Coil Class* Voltage* Seal Material Body Material Pipe Connection Orifice Size


* 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 Size</td>
<td>60 50</td>
<td>Inrush 46 46</td>
</tr>
<tr>
<td>All S4</td>
<td></td>
<td>Holding 18 23</td>
</tr>
</tbody>
</table>

G C Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
S21 Series

- 3/8" NPT
- Stainless Steel Body
  Type 316
- 2-Way Piloted Diaphragm
- Normally Closed

<table>
<thead>
<tr>
<th>Materials</th>
<th>Seals:</th>
<th>Nitrile, Viton®, Ethylene Propylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orifice:</td>
<td>Pilot</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td></td>
<td>Main</td>
<td>Stainless Steel Ø 5/8&quot;</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<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>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard Voltages:</th>
<th>24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.</th>
</tr>
</thead>
<tbody>
<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>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>Ambient (Nominal): 32°F to 125°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Position:</td>
<td>Any</td>
</tr>
<tr>
<td>Approvals* Agency:</td>
<td>UL Listed, UL Recognized, CSA Approved</td>
</tr>
</tbody>
</table>

* Not available for all variations

Registered Trademark of DuPont Co.

Dimensions/Weight

Weight (lbs.)

2.5

GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
S211 - 3/8" NPT, Stainless Steel Body, Type 316, Normally Closed

Valve Selection List

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>Operating Pressure Differential (psi)</th>
<th>Power Consumption (Watts)</th>
<th>Model Code</th>
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</thead>
<tbody>
<tr>
<td>NPT</td>
<td>Minimum</td>
<td>Maximum</td>
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</tr>
<tr>
<td></td>
<td>Air/Gas AC</td>
<td>DC</td>
<td>Water AC</td>
<td>DC</td>
</tr>
<tr>
<td>3/8</td>
<td>5/8</td>
<td>4</td>
<td>200</td>
<td>150</td>
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<td>150</td>
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<td>5/8</td>
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<td>150</td>
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<td>5/8</td>
<td>4</td>
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Part Numbering

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<th>5</th>
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<td>2</td>
<td>E</td>
<td>7</td>
<td>C</td>
<td>G</td>
<td>4</td>
</tr>
</tbody>
</table>

Series | Operating Mode | Housing* | Coil Class* | Voltage* | Seal Material | Body Material | Pipe Connection | Orifice Size |
|-------|----------------|----------|-------------|----------|---------------|---------------|----------------|-------------|

- 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></td>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Inrush</td>
<td>36</td>
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<tr>
<td></td>
<td>Holding</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

* Class H Coil Recommended for Steam and Other High Temperature Applications
- 3/8" NPT
- Stainless Steel Body
- 2-Way Piloted Piston
- Normally Closed

### Materials
- Seals: Nitrile, Viton®, Teflon®, Ethylene Propylene
- Orifice: Pilot Main Stainless Steel Stainless Steel Ø 3/8"

### Electrical
- Standard Housing: Encapsulated Waterproof Conduit (NEMA 4/4X)
- Optional Housings: Metallic Conduit, Explosion-proof (NEMA 7), Grommet, Open Frame, Junction Box (single or dual knockouts), DIN; Contact GC Valves Customer Service for others.
- 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 Safety Shutoff, UL Listed, UL Recognized, CSA Approved, FM Certified

* Not available for all variations

### Dimensions/Weight

| Weight (lbs.) | 1.8 |

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GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
**S401 - 3/8" NPT, Stainless Steel Body, Normally Closed**

### Valve Selection List

#### Normally Closed

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>Operating Pressure Differential (psi)</th>
<th>Maximum</th>
<th>Power Consumption (Watts)</th>
<th>Model Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT</td>
<td>CV</td>
<td>Air/Gas</td>
<td>Water</td>
<td>Fuel Oil</td>
<td>Steam*</td>
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<td>300</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>3/8</td>
<td>1.5</td>
<td>0</td>
<td>300</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>3/8</td>
<td>1.5</td>
<td>0</td>
<td>300</td>
<td>150</td>
<td>150</td>
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</tbody>
</table>

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

### Part Numbering

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<td>C</td>
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<td>C</td>
<td>F</td>
<td>5</td>
</tr>
</tbody>
</table>

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

### Coil Data

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

Nominal Power (VA)

| Inrush | 46 | 46 |
| Holding| 20 | 21 |

**For Steam Service**

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GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
**H 40 Series**

- **High Pressure**
- **3/8" NPT**
- **Stainless Steel Body**
- **2-Way Piloted Piston**
- **Normally Closed**

### Materials

<table>
<thead>
<tr>
<th>Orifice:</th>
<th>Pilot Main</th>
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</thead>
<tbody>
<tr>
<td>Stainless Steel</td>
<td>Stainless Steel Ø 3/8&quot;</td>
</tr>
</tbody>
</table>

### Seals:

- Viton® and Teflon®

### Orifice:

- Pilot Stainless Steel
- Main Stainless Steel Ø 3/8"

### Electrical

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

* Not available for all variations

### Dimensions/Weight

| Weight (lbs.) | 1.8 |

### GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)
H401 - High Pressure, 3/8" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Orifice Size</th>
<th>C_v</th>
<th>Minimum</th>
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<th>Model Code</th>
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<td>IN</td>
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<td>120/60</td>
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Part Numbering

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<tr>
<td>H</td>
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</tbody>
</table>

* 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: All</td>
<td>60</td>
<td>46</td>
</tr>
<tr>
<td>Size: S4</td>
<td>50</td>
<td>Inrush 46</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Holding 21</td>
</tr>
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</table>

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