General Service Ball Valves

GB Series

- Working pressures up to 6000 psig (413 bar) with temperatures from –40 to 250°F (–40 to 121°C)
- Swagelok® tube fitting end connections in fractional (3/8 in. to 1 in.) and metric (12 mm to 25 mm), female pipe end connections in fractional (3/8 in. to 1 in.)
- Corrosion-resistant body materials: 316/316L, Alloy 2507, 6-Moly, Alloy 625, Alloy 825, Alloy C-276
- Mechanically locked end screw design (patent pending) provides increased safety
- Optional NACE MR0175/ISO 15156 for sour gas
Features

- Body seals designed for hydrostatic system proof testing up to $1.5 \times$ maximum rated pressure
- Valve bodies feature a bolt pattern that can be used for optional lockout, panel mount, and a bracket compatible with ISO 5211 pneumatic actuator to reduce inventory levels and provide installation flexibility
- Mechanically locked (crimped) end screw design (patent-pending) to avoid accidental disassembly and increase safety

Important Information About Swagelok General Service Ball Valves

⚠️ Swagelok general service ball valves are designed to be operated in a fully open or fully closed position.
⚠️ A packing adjustment may be required periodically to increase service life and to prevent leakage.
⚠️ Valves that have not been cycled for a period of time may have a higher initial actuation torque.
Directional stem flats show open or closed position

Stem springs compensate for changes in pressure, temperature, and wear

Grounding spring grounds stem to provide continuity for antistatic protection

Live-loaded, 2-piece chevron stem packing
- Requires less operating torque
- Improves performance
- Compensates for stem wear

PEEK stem bearing
- Provides smooth actuation
- Eliminates galling between valve stem and body
- Resists wear

Bottom-loaded stem
- Prevents stem blowout
- Enhances system safety

Full bore design provides flow with no restrictions through body or ball

Floating ball design achieves positive seat seal from low through fully rated pressures

PEEK seat and metal body seal design without elastomers allows for improved system compatibility

316 stainless steel lever handle with sleeve gives improved corrosion resistance

Pressure-Temperature Ratings

<table>
<thead>
<tr>
<th>Temperature, °F (°C)</th>
<th>316/316L (max)</th>
<th>Alloy 2507 (max)</th>
<th>Alloy 625 (max)</th>
<th>Alloy 825 (max)</th>
<th>6-Moly (max)</th>
<th>Alloy C-276 (max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>–40 (–40) to 100 (37)</td>
<td>6000 (413)</td>
<td>6000 (413)</td>
<td>6000 (413)</td>
<td>6000 (413)</td>
<td>6000 (413)</td>
<td>6000 (413)</td>
</tr>
<tr>
<td>200 (93)</td>
<td>5190 (357)</td>
<td>5981 (412)</td>
<td>6000 (413)</td>
<td>5510 (379)</td>
<td>5800 (399)</td>
<td>5472 (377)</td>
</tr>
<tr>
<td>250 (121)</td>
<td>4935 (340)</td>
<td>5818 (400)</td>
<td>6000 (413)</td>
<td>5369 (369)</td>
<td>5535 (381)</td>
<td>5263 (362)</td>
</tr>
</tbody>
</table>

1 Seal and survive to –58°F (–50°C), actuation not permitted below –40°F (–40°C). See PTR-5024, Low Temperature Thermal Cycle Test of Swagelok® 8GB and 16GB Series General Service Ball Valves.

Pressure ratings for valves with Swagelok tube fitting ends may be lower due to the tubing pressure rating. Refer to Swagelok Tubing Data, MS-01-107 for additional information.

Ratings are based on ASME Code for Pressure Piping B31.3, Process Piping and ASME B31.1, Power Piping.
## Materials of Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Valve Body Materials</th>
<th>316/316L</th>
<th>Alloy 2507</th>
<th>Alloy 625</th>
<th>Alloy 825</th>
<th>6-Moly</th>
<th>Alloy C-276</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Material Grade/ASTM</td>
<td>316 SS</td>
<td>A276</td>
<td>A276</td>
<td>A276</td>
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<td>A276</td>
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<tr>
<td>1 Stem nut (2)</td>
<td>316 SS</td>
<td>316 SS</td>
<td>316 SS</td>
<td>316 SS</td>
<td>316 SS</td>
<td>316 SS</td>
<td>316 SS</td>
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<tr>
<td>2 Stem washer</td>
<td>316 SS/A240 (6GB) / 316 SS/A249 (16GB)</td>
<td>316 SS/A240 (6GB) / 316 SS/A249 (16GB)</td>
<td>316 SS/A240 (6GB) / 316 SS/A249 (16GB)</td>
<td>316 SS/A240 (6GB) / 316 SS/A249 (16GB)</td>
<td>316 SS/A240 (6GB) / 316 SS/A249 (16GB)</td>
<td>316 SS/A240 (6GB) / 316 SS/A249 (16GB)</td>
<td>316 SS/A240 (6GB) / 316 SS/A249 (16GB)</td>
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<tr>
<td>3 Stop plate</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
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<tr>
<td>4 Handle</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
<td>316 SS/A240</td>
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<tr>
<td>5 Handle sleeve</td>
<td>Vinyl</td>
<td>Vinyl</td>
<td>Vinyl</td>
<td>Vinyl</td>
<td>Vinyl</td>
<td>Vinyl</td>
<td>Vinyl</td>
</tr>
<tr>
<td>6 Grounding spring</td>
<td>316 SS/A313</td>
<td>316 SS/A313</td>
<td>316 SS/A313</td>
<td>316 SS/A313</td>
<td>316 SS/A313</td>
<td>316 SS/A313</td>
<td>316 SS/A313</td>
</tr>
<tr>
<td>7 Stem springs (2)</td>
<td>316 SS/A249</td>
<td>316 SS/A249</td>
<td>316 SS/A249</td>
<td>316 SS/A249</td>
<td>316 SS/A249</td>
<td>316 SS/A249</td>
<td>316 SS/A249</td>
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<tr>
<td>8 Gland</td>
<td>PTFE-coated 316 SS/B783</td>
<td>PTFE-coated 316 SS/B783</td>
<td>PTFE-coated 316 SS/B783</td>
<td>PTFE-coated 316 SS/B783</td>
<td>PTFE-coated 316 SS/B783</td>
<td>PTFE-coated 316 SS/B783</td>
<td>PTFE-coated 316 SS/B783</td>
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<td>9 Packing support</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
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<tr>
<td>10 Top packing</td>
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<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
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<tr>
<td>11 Bottom packing</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
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<tr>
<td>12 Stem bearing</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
</tr>
<tr>
<td>13 Seats (2)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
<td>Polyetheretherketone (PEEK)</td>
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<tr>
<td>14 Stem</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
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<tr>
<td>15 Body</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
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<tr>
<td>16 End screw(s)</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
<td>316/316L SS A276 and A479</td>
</tr>
<tr>
<td>17 Ball</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
<td>316/316L SS A276</td>
</tr>
<tr>
<td>18 End screw gasket (2)</td>
<td>Silver-plated C276</td>
<td>Silver-plated C276</td>
<td>Silver-plated C276</td>
<td>Silver-plated C276</td>
<td>Silver-plated C276</td>
<td>Silver-plated C276</td>
<td>Silver-plated C276</td>
</tr>
</tbody>
</table>

Wetted components listed in italics.

① Coated with molybdenum disulfide with a hydrocarbon carrier (excluding the 8GB seats).
## Ordering Information

Build a GB series ball valve ordering number by combining the designators in the sequence shown below.

### Standard

**1. Material**
(Refer to Materials of Construction on page 4.)
- SS = 316/316L SS
- 6MO = 6-Moly
- 2507 = Alloy 2507
- 625 = Alloy 625
- 825 = Alloy 825
- HC = C-276

**2. Configuration**
- 8GB = GB valve with 1/2 in. bore
- 16GB = GB valve with 7/8 in. bore

**3. End Connection 1 Type**
- S = Swagelok tube fitting
- F = Female NPT
- FK = Swagelok medium pressure
- F_RT = Female ISO/BSP (replace underscore with size)
- MS = SAE straight

**4. End Connection 1 Size**
- 6 = 3/8 in. (8 GB only)
- 8 = 1/2 in. (8 GB only)
- 12 = 3/4 in.
- 16 = 1 in. (16 GB only)
- 12MM = 12 mm (8 GB only)
- 16MM = 16 mm (8 GB only)
- 18MM = 18 mm
- 20MM = 20 mm
- 22MM = 22 mm (16 GB only)
- 25MM = 25 mm (16 GB only)

**5. End Connection 2 Type**
(Required only if different from End Connection 1 Type.)
- S = Swagelok tube fitting
- F = Female NPT
- FK = Swagelok medium pressure
- F_RT = Female ISO/BSP (replace underscore with size)
- MS = SAE straight

**6. End Connection 2 Size**
(Required only if different from End Connection 1 Size.)
- 6 = 3/8 in. (8 GB only)
- 8 = 1/2 in. (8 GB only)
- 12 = 3/4 in.
- 16 = 1 in. (16 GB only)
- 12MM = 12 mm (8 GB only)
- 16MM = 16 mm (8 GB only)
- 18MM = 18 mm
- 20MM = 20 mm
- 22MM = 22 mm (16 GB only)
- 25MM = 25 mm (16 GB only)

**7. Valve Options**
(Note: If selecting more than one option, designators must be in alphabetical order.)
- None = Standard (black handle sleeve)
- BL = Blue handle sleeve
- GR = Green handle sleeve
- JK = Oval handle (orange is standard)
- JL = Lever handle with locking bracket
- JLK = Oval handle with locking bracket
- RD = Red handle sleeve
- SG = Alloy 400 ball and stem selected in accordance with MR0175/ISO 15156 (SS only)
- W20 = Hydrostatic test
- YW = Yellow handle sleeve

**8. Pneumatic Actuator Options**
(Refer to ISO 5211-Compliant Pneumatic Actuators on page 9.)

### Sour Gas Valves

GB series valves are available for sour gas service. Alloy 2507, 6-Moly, alloy 625, alloy 825, and alloy C-276 utilize materials in accordance with NACE MR0175/ISO15156 as standard. No special designator is required.

The standard 316/316L SS valve uses a 316/316L body and end screws in accordance with NACE MR0175/ISO15156. For a SS valve with all wetted materials in accordance with NACE MR0175, an alloy 400 ball and stem are used and can be ordered by adding -SG to the SS valve ordering number.

Example: SS-8GBF8-SG
**Dimensions**

Dimensions, in inches (millimeters), are for reference only and are subject to change.

**Swagelok Tube Fitting End Connections**

Dimensions are shown with Swagelok nuts finger-tight. See **Ordering Information** on page 5.

**1/2 in. Female Pipe Thread End Connections (two-piece body)**

Female NPT pipe thread dimensions are based on ASME B1.20.1. See **Ordering Information** on page 5.

**Bolt Pattern and Panel Mount Template**

2.05 (52.0)

0.56 (14.3)

0.83 (21.1) hole

4 holes for 1/4 in. dia bolt

**Handle Closed**
## Dimensions

Dimensions, in inches (millimeters), are for reference only and are subject to change.

<table>
<thead>
<tr>
<th>End Connection</th>
<th>Size</th>
<th>Ordering Number</th>
<th>Orifice in (mm)</th>
<th>C_x</th>
<th>Dimensions, in (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>C</td>
</tr>
<tr>
<td><strong>Fractional Swagelok Tube Fitting</strong></td>
<td>3/8 in.</td>
<td>SS-8GBS6</td>
<td>0.281 (7.1)</td>
<td>2.5</td>
<td>5.55</td>
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<tr>
<td></td>
<td>1/2 in.</td>
<td>SS-8GBS8(^5)</td>
<td>0.41 (10.4)</td>
<td>7</td>
<td>5.76</td>
</tr>
<tr>
<td></td>
<td>3/4 in.</td>
<td>SS-8GBS12(^2)</td>
<td>0.516 (13.1)</td>
<td>10</td>
<td>5.77</td>
</tr>
<tr>
<td></td>
<td>3/4 in.</td>
<td>SS-16GBS12</td>
<td>0.620 (15.7)</td>
<td>15</td>
<td>6.92</td>
</tr>
<tr>
<td></td>
<td>1 in.</td>
<td>SS-16GBS16</td>
<td>0.875 (22.2)</td>
<td>40</td>
<td>7.26</td>
</tr>
<tr>
<td><strong>Swagelok Medium-Pressure Tube Fitting</strong></td>
<td>3/4 in.</td>
<td>SS-16GBFSK12</td>
<td>0.56 (14.2)</td>
<td>5</td>
<td>5.44</td>
</tr>
<tr>
<td></td>
<td>1 in.</td>
<td>SS-16GBFSK16</td>
<td>0.73 (18.5)</td>
<td>10</td>
<td>5.44</td>
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<tr>
<td><strong>Metric Swagelok Tube Fitting</strong></td>
<td>12 mm</td>
<td>SS-8GBS12MM</td>
<td>0.375 (9.5)</td>
<td>5</td>
<td>5.77</td>
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<tr>
<td></td>
<td>16 mm</td>
<td>SS-8GBS16MM</td>
<td>0.50 (12.7)</td>
<td>10</td>
<td>5.77</td>
</tr>
<tr>
<td></td>
<td>20 mm</td>
<td>SS-8GBS20MM</td>
<td>0.516 (13.1)</td>
<td>10</td>
<td>5.77</td>
</tr>
<tr>
<td></td>
<td>20 mm</td>
<td>SS-16GBS20MM</td>
<td>0.625 (15.9)</td>
<td>15</td>
<td>6.92</td>
</tr>
<tr>
<td></td>
<td>25 mm</td>
<td>SS-16GBS25MM</td>
<td>0.875 (22.2)</td>
<td>40</td>
<td>7.27</td>
</tr>
<tr>
<td><strong>Female NPT Pipe Thread</strong></td>
<td>3/8 in.</td>
<td>SS-8GFB6</td>
<td>0.516 (13.1)</td>
<td>10</td>
<td>3.78</td>
</tr>
<tr>
<td></td>
<td>1/2 in.</td>
<td>SS-8GFB8(^1)</td>
<td>0.516 (13.1)</td>
<td>10</td>
<td>3.37</td>
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<tr>
<td></td>
<td>3/4 in.</td>
<td>SS-8GFB12(^2)</td>
<td>0.516 (13.1)</td>
<td>10</td>
<td>4.58</td>
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<tr>
<td></td>
<td>3/4 in.</td>
<td>SS-16GFB12</td>
<td>0.875 (22.2)</td>
<td>40</td>
<td>4.98</td>
</tr>
<tr>
<td></td>
<td>1 in.</td>
<td>SS-16GFB16(^2)</td>
<td>0.875 (22.2)</td>
<td>40</td>
<td>5.44</td>
</tr>
<tr>
<td><strong>Female ISO/ BSP Tapered Pipe Thread</strong></td>
<td>1/2 in.</td>
<td>SS-8GFB8RT</td>
<td>0.516 (13.1)</td>
<td>10</td>
<td>3.78</td>
</tr>
<tr>
<td></td>
<td>3/4 in.</td>
<td>SS-8GBMS8</td>
<td>0.516 (13.1)</td>
<td>7</td>
<td>3.78</td>
</tr>
<tr>
<td></td>
<td>3/4 in.</td>
<td>SS-8GBMS12</td>
<td>0.516 (13.1)</td>
<td>10</td>
<td>4.58</td>
</tr>
<tr>
<td></td>
<td>3/4 in.</td>
<td>SS-16GBMS12</td>
<td>0.875 (22.2)</td>
<td>15</td>
<td>4.98</td>
</tr>
<tr>
<td></td>
<td>1 in.</td>
<td>SS-16GBMS16(^2)</td>
<td>0.875 (22.2)</td>
<td>40</td>
<td>5.44</td>
</tr>
</tbody>
</table>

\(^{1}\) The 1/2 in. female NPT pipe thread configuration has a 2-piece body (stainless steel only). All other configurations have 3-piece bodies.

\(^{2}\) The 8GB valves with 3/4 in. end connections or 1/2 in. diameter and 0.035 in. tube wall will have a slight flow restriction through the valve.

\(^{3}\) The 16GB valves with 1 in. diameter and schedule 40 or 80 pipe will have a slight flow restriction through the valve.
Options and Accessories

Handles

A variety of handle options are available for use with GB series ball valves. To order a lever handle with locking-bracket, add -JL to the ordering number. The 8GB valve can also be panel mounted for a lever handle with locking bracket. Maximum panel thickness is 0.105 in. (2.67 mm) (12 Gauge sheet metal.)

To order an oval handle, add -JK to the ordering number. Refer to page 5 for other options.

Locking Handle Bracket Kits

<table>
<thead>
<tr>
<th>Valve Series</th>
<th>Kit Description</th>
<th>Kit Contents</th>
<th>Kit Ordering Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>8GB lever handle</td>
<td>Locking/panel mount</td>
<td>(1) Stop bracket (4) Cap screws (1) Stop plate</td>
<td>SS-5DK-8GB-JL</td>
</tr>
<tr>
<td>8GB oval handle</td>
<td>Locking</td>
<td>(1) Lockable stop plate (1) Locking bracket (2) Cap screws</td>
<td>SS-5DK-8GB-JLK</td>
</tr>
<tr>
<td>16GB lever and oval handles</td>
<td>Locking</td>
<td>(1) Stop bracket (4) Cap screws</td>
<td>SS-5DK-16GB-LH</td>
</tr>
</tbody>
</table>

The temperature range for the 16GB with oval handle is limited to a range of 0°F (–17°C) to 250°F (121°C).

Testing

Every Swagelok general service ball valve is factory tested in both directions with nitrogen at 1000 psig (69 bar). Seats have a maximum allowable leak rate of 0.1 std cm³/min. Shell testing is performed to a requirement of no detectable leakage with a liquid leak detector.

Cleaning and Packaging

All Swagelok general service ball valves are cleaned and packaged in accordance with Swagelok Standard Cleaning and Packaging (SC-10) catalog, MS-06-62.
ISO 5211-Compliant Pneumatic Actuators

These Swagelok rack and pinion pneumatic actuators are ISO 5211-compliant and are suitable for general applications. They are available in spring-return and double-acting modes. On-off (2-way) valves require 90° actuation.

Valve-actuator assemblies on this page are based on a –20 to 100°F (–28 to 37°C) system temperature and the valve cycling at least once per day but not more than once per hour.

For other valve body materials or if your application falls outside of this scope, contact your authorized Swagelok sales and service representative.

For technical data, including actuator materials of construction and weight, refer to Ball Valve Actuation Options catalog, MS-02-343.

For additional information on selecting and sizing ISO 5211-compliant actuators, refer to Actuated Ball Valve Selection Guide—ISO 5211-Compliant Actuator Mounting Bracket Kits catalog, MS-02-136.

Pressure-Temperature Ratings
Maximum actuator pressure is 116 psig (8.0 bar). See Minimum Actuator Pressure table below for minimum actuator pressures.

<table>
<thead>
<tr>
<th>Actuator Service</th>
<th>Actuator Service Designator</th>
<th>Temperature Range °F (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>—</td>
<td>–40 to 176 (–40 to 80)</td>
</tr>
<tr>
<td>High temperature</td>
<td>HT</td>
<td>5 to 250 (–15 to 121)</td>
</tr>
</tbody>
</table>

Minimum Actuator Pressure

Caution: Actuated assemblies must be properly aligned and supported. Improper alignment or inadequate support of the actuated assembly may result in leakage or premature valve failure.
ISO 5211-Compliant Pneumatic Actuators

Ordering Information

Factory-Assembled Valves with Actuators

Typical Ordering Number

SS-8GBS8 -A30D HT

A Valve Ordering Number

B Actuator Model
Based on valve series, actuation mode, and flow pattern, select actuator designator. See Minimum Actuator Pressure table, page 9.

C Actuator Service
HT = High temperature
None = Standard

Kits for Field Assembly

Order one actuator kit and one mounting bracket kit for each valve.

Actuator Kit Typical Ordering Number

MS - A30-4 - DIN -HT

A Actuator Model
Based on valve series, actuation mode, and flow pattern, select actuator designator. See Minimum Actuator Pressure table, page 9, and Actuator Model Designators table below.

B Coupling Drive Type
DIN

C Actuator Service
-HT = High temperature
None = Standard

Options for Pneumatic Actuators

Swagelok can provide factory assemblies with pneumatic actuators, solenoid valves, limit switches, and position sensors, as well as kits for field assembly.

Actuator Model Designators

<table>
<thead>
<tr>
<th>Valve Series</th>
<th>Spring Return Actuator Model</th>
<th>Spring Return Model Designator</th>
<th>Double Acting Model</th>
<th>Double Acting Model Designator</th>
</tr>
</thead>
<tbody>
<tr>
<td>8GB</td>
<td>A30</td>
<td>–</td>
<td>A30</td>
<td>A30-DA</td>
</tr>
<tr>
<td></td>
<td>A60</td>
<td>A60-5</td>
<td>A60</td>
<td>A60-DA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A60-6</td>
<td>A60</td>
<td></td>
</tr>
<tr>
<td>16GB</td>
<td>A60</td>
<td>–</td>
<td>A60</td>
<td>A60-DA</td>
</tr>
<tr>
<td></td>
<td>A100</td>
<td>A100-6</td>
<td>A100</td>
<td>A100-DA</td>
</tr>
</tbody>
</table>

Actuator Mounting Kits

<table>
<thead>
<tr>
<th>Valve Series</th>
<th>Applicable Actuators</th>
<th>Kit Ordering Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>8GB</td>
<td>A30 or A60</td>
<td>SS-MB-8GB-F05-14DIN-M</td>
</tr>
<tr>
<td>16GB</td>
<td>A60</td>
<td>SS-MB-16GB-F05-14DIN-M</td>
</tr>
<tr>
<td></td>
<td>A100</td>
<td>SS-MB-16GB-F05-17DIN-M</td>
</tr>
</tbody>
</table>

Mounting Bracket Kits

Swagelok ISO 5211 mounting bracket kits contain:
- 316 stainless steel mounting bracket
- four A4 stainless steel socket head cap screws (A4 is approximately equivalent to AISI 316.)
- 316 stainless steel coupling
- Aluminum coupling sleeve
- 302 stainless steel coupling spring
- four 316 stainless 1/4–20 button head cap screws
- instructions.
ISO 5211-Compliant Pneumatic Actuators

Dimensions

Dimensions, in inches (millimeters), are for reference only and are subject to change.

<table>
<thead>
<tr>
<th>Valve Series</th>
<th>Actuator Model</th>
<th>Dimensions, in. (mm)</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>On-Off (2-Way) Valves</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8GB</td>
<td>A30</td>
<td>6.04 (153)</td>
<td>5.13 (130)</td>
<td>2.04 (51.8)</td>
<td>2.72 (69.1)</td>
</tr>
<tr>
<td></td>
<td>A60</td>
<td>8.01 (203)</td>
<td>5.80 (147)</td>
<td>2.04 (51.8)</td>
<td>2.72 (69.1)</td>
</tr>
<tr>
<td>16GB</td>
<td>A60</td>
<td>8.01 (203)</td>
<td>5.80 (147)</td>
<td>2.43 (61.8)</td>
<td>2.72 (69.1)</td>
</tr>
<tr>
<td></td>
<td>A100</td>
<td>9.46 (240)</td>
<td>6.31 (160)</td>
<td>2.43 (61.8)</td>
<td>2.72 (69.1)</td>
</tr>
</tbody>
</table>

2 mounting holes 0.34 (8.7) dia

Swagelok offers a range of accessories to enhance instrumentation and process ball valve performance and control, including solenoid valves, limit switches, and position sensors. Factory assemblies and kits for field assembly are available.

Refer to Ball Valve Actuation Options catalog, MS-02-343, for additional information.

Oxygen Service Hazards

For more information about hazards and risks of oxygen-enriched systems, refer to Oxygen System Safety technical report, MS-06-13.
Safe Product Selection
When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

⚠️ Warning: Do not mix/interchange Swagelok products or components not governed by industrial design standards, including Swagelok tube fitting end connections, with those of other manufacturers.

Warranty Information
Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.