The Series PGV Compact Plug Valves are designed to stop forward flow of up to 3000 psig with ease. The combination of 1/4 turn operation and low operating torque allows for quick opening and closing providing positive shut off to instrumentation and process systems. The PGV series comes in either fractional tube fitting or female NPT connections. Available in either 316 SS or brass, the one-piece body makes this valve an economical choice for your application.

**Micro Finished Ball and PTFE seats ensure quality seal and easy operation.**

**Straight Through Flow Path Design** allows for minimal pressure drop. The valve body comes in either brass or 316 SS, offering a variety of options. Blow out proof ball and stem provides extra durability and safety in the event of over pressure.

**SPECIFICATIONS**

**Service:** Gases and liquids compatible with wetted materials.

**Wetted Materials:**
- **Body:** 316 SS or brass
- **O-rings:** PTFE coated fluorocarbon FKM
- **Plug:** PTFE coated 316 SS or PTFE coated brass

**Pressure Limits:**
- Stainless steel: 3000 psig (207 bar)
- Brass: 3000 psig (207 bar): 2.3 mm orifice, 4.4 mm orifice, 2000 psig (138 bar): 7.2 mm orifice.

**Temperature Limit:**
- -10 to 400°F (-23 to 240°C)

**Connections:** Female NPT, fractional tube fitting.

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The Series MSV Compact Two Way Ball Valves are the perfect choice for directional control of fluid in instrumentation and process systems. The micro finished ball and PTFE seats ensure quality seal and easy operation. The straight through flow path design allows for minimal pressure drop. The valve body comes in either brass or 316 SS, offering a variety of options. Blow out proof ball and stem provides extra durability and safety in the event of over pressure.

**SPECIFICATIONS**

**Service:** Gases and liquids compatible with wetted materials.

**Wetted Materials:**
- **Body:** connector: 316 SS or brass
- **Stem ball:** 316 SS
- **Stem o-ring:** connector o-ring, back-up rings: Fluoroelastomer
- **Ball seats:** PTFE

**Pressure Limits:**
- 1500 psig (103 bar). Temperature Limit: -40 to 350°F (-40 to 176°C)

**Connections:** Female NPT, fractional tube fitting.

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## Table of Valves

<table>
<thead>
<tr>
<th>Valve Body</th>
<th>Connection Type</th>
<th>Inlet Size</th>
<th>Outlet Size</th>
<th>Orifice in (mm)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>Fractional Tube Fitting</td>
<td>1/8</td>
<td>1/8</td>
<td>0.093 (2.3)</td>
<td>MSV-BD110</td>
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<tr>
<td></td>
<td></td>
<td>1/4</td>
<td>1/4</td>
<td>0.172 (4.4)</td>
<td>MSV-BD220</td>
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<tr>
<td></td>
<td></td>
<td>3/8</td>
<td>3/8</td>
<td>0.283 (7.2)</td>
<td>MSV-BD330</td>
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<td></td>
<td>1/2</td>
<td>1/2</td>
<td>0.283 (7.2)</td>
<td>MSV-BD440</td>
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<td>Female NPT</td>
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<td>1/4</td>
<td>0.172 (4.4)</td>
<td>MSV-BF220</td>
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<td></td>
<td>1/2</td>
<td>1/2</td>
<td>0.283 (7.2)</td>
<td>MSV-BF430</td>
</tr>
</tbody>
</table>

| Series PGV | Compact Plug Valve |

| Series MSV | Compact Two Way Ball Valve |

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**See website for dimensions.**