The Series 3MSV Compact 3-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.

### Valve Body Connections

<table>
<thead>
<tr>
<th>Inlet Size</th>
<th>Outlet Size</th>
<th>Orifice Size (in mm)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>1/8&quot;</td>
<td>0.093 (2.38)</td>
<td>3MSV-BD110</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
<td>0.125 (3.18)</td>
<td>3MSV-BD220</td>
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<tr>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
<td>0.250 (6.35)</td>
<td>3MSV-BD340</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>0.437 (11.10)</td>
<td>3MSV-BD450</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>0.437 (11.10)</td>
<td>3MSV-BD550</td>
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<tr>
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<td>1/8&quot;</td>
<td>0.125 (3.18)</td>
<td>3MSV-BF120</td>
</tr>
<tr>
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<td>1/4&quot;</td>
<td>0.250 (6.35)</td>
<td>3MSV-BF240</td>
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<td>3MSV-BF340</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>0.437 (11.10)</td>
<td>3MSV-BF450</td>
</tr>
</tbody>
</table>

### Valve Body Material

- **Body:** 2-piece.
- **End Connections:** Female NPT.
- **Pressure Limit:** 200 psi (13.8 bar).
- **Wetted Materials:** Body, end cap, forged brass ball; Stem: Chrome plated brass; Seat: RTFE; Stem seal: Fluoroelastomer; Bushings: Brass.
- **Temperature Limit:** 35 to 165°F (2 to 74°C).
- **Discharge Volume Cycle:** 1/2": 0.92 gal @ 80 psi (valve only); 3/4": 1.64 gal @ 80 psi; 1": 2.50 gal @ 80 psi.

### Actuator

- **Electric**
  - Power Requirements: 110 VAC, 60 Hz, single phase.
  - Power Consumption: 2.5 A.
  - Cycle Time Adjustable: 5 min, 10 min, 15 min, 30 min, 1 hr, 2 hr, 4 hr, 8 hr, 16 hr, 24 hr.
  - Housing Material: Polycarbonate.
  - Electrical Connection: 18 AWGX3C, 8" (2.4 m) power cord.

**Contact Us**

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