**Series BV3 Automated Ball Valves**

- Ideal for food or chemical processing
- 3-piece SS investment cast body
- Internal entry blow-out stem
- Polished stem for high cycling
- 1000 WOG PSI, 125 psi steam

**Series BV3** incorporates a full port three piece SS ball valve for great flow rates with minimal pressure drop. The valve features a blowout proof stem for added safety, reinforced PTFE seats and seals for longer life, and a SUS304 (ASTM A351 GR CF8M) ball for better thermal bonding polyester powder finish.

**Pneumatic Double Acting**

<table>
<thead>
<tr>
<th>Actuator Size</th>
<th>DA</th>
<th>SR1</th>
<th>SR2</th>
<th>SR3</th>
<th>SR4</th>
<th>SR5</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA1</td>
<td>3/8˝</td>
<td>6.810</td>
<td>2.362</td>
<td>2.800</td>
<td>5.390</td>
<td>6.540</td>
</tr>
<tr>
<td>DA2</td>
<td>1/2˝</td>
<td>6.810</td>
<td>3.149</td>
<td>3.543</td>
<td>6.540</td>
<td>7.400</td>
</tr>
<tr>
<td>DA3</td>
<td>3/4˝</td>
<td>6.810</td>
<td>4.250</td>
<td>4.724</td>
<td>7.400</td>
<td>8.400</td>
</tr>
<tr>
<td>DA4</td>
<td>1˝</td>
<td>6.810</td>
<td>4.724</td>
<td>5.151</td>
<td>7.400</td>
<td>9.400</td>
</tr>
<tr>
<td>DA5</td>
<td>1-1/2˝</td>
<td>7.272</td>
<td>7.272</td>
<td>9.400</td>
<td>11.500</td>
<td>13.500</td>
</tr>
</tbody>
</table>

**Spring Return**

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**Actuator**

- Pneumatic double acting uses an air supply to drive the valve open and closed.
- Electrically actuated models are weatherproof, NEMA 4, powered by standard 115 VAC supply, and are available in either two position or proportional control.
- Two-position actuators use the 115 VAC input to drive the valve open or closed, while the modulating actuator accepts a 4 to 20 mA input for infinite valve positioning.
- Actuator features thermal overload protection and a permanently lubricated gear train.
- Double O-ring stem seals assure leak free operation.

**BV3 Series** is an economical automated valve package with either an electric or pneumatic actuator. Electrically actuated models are weatherproof, NEMA 4, powered by standard 115 VAC supply, and are available in either two position or proportional control. Two-position actuators use the 115 VAC input to drive the valve open or closed, while the modulating actuator accepts a 4 to 20 mA input for infinite valve positioning. Actuator features thermal overload protection and a permanently lubricated gear train.

**Electric and Pneumatic Actuators**

- Pneumatic double acting uses an air supply to drive the valve open and closed.
- Electrically actuated models are weatherproof, NEMA 4, powered by standard 115 VAC supply, and are available in either two position or proportional control.

**Specifications**

- Body: 3 piece
- Line Size: 1/4˝ to 3/4˝
- End Connections: Female NPT
- Pressure Limit: 1000 PSI 125 psi steam
- End Connections: Female NPT
- Duty Rating:
  - Two position: 1/4˝ to 3/4˝: 2.5 s, 1˝ to 1-1/2˝: 5 s, 2-1/2˝ and 3˝: 10 s
  - Modulating: 1/4˝ to 3/4˝: 0.55 A; 1˝ to 1-1/2˝: 0.75 A, 2˝: 0.75 A, 2-1/2˝: 0.75 A, 3˝: 1.1 A
- Power Consumption (Locked Rotor): 0.55 A, 1˝ to 1-1/2˝: 0.75 A, 2˝: 0.75 A, 2-1/2˝: 0.75 A, 3˝: 1.1 A
- Normal Supply Pressure: 80 psi (5.5 bar)
- Maximum Supply Pressure: 130 psig (9.0 bar)
- Air Connections: DA/SR1 to 5
- Air Consumption (per stroke): DA1: 2.32 in3; DA2, SR2, SR3: 9.34 in3; DA3, SR3, SR4: 17.21 in3; DA4, SR4: 34.17 in3; DA5, SR5: 39.54 in3; SR6: 54.37 in3; SR7: 103.74 in3
- Cycle Time (per 90°):
  - DA1: 0.05 s; DA2, SR2, SR3: 0.06 s; DA3, SR3, SR4: 0.18 s; DA4, SR4: 0.36 s; DA5, SR5: 0.72 s; SR6: 39 s; SR7: 80 s
  - Modulating:
  - DA1: 0.05 s; DA2, SR2, SR3: 0.06 s; DA3, SR3, SR4: 0.18 s; DA4, SR4: 0.36 s; DA5, SR5: 0.72 s; SR6: 39 s; SR7: 80 s
- Modulating Input: 4 to 20 mA
- Temperature Limit: -4 to 200°F (-20 to 93°C)