**Series BV3-3A ball valves** meet 3A sanitary standards and feature tri-clamp ends for easy line removal. This three-piece sanitary ball valve is ideal for use in food, beverage, semiconductor, or pharmaceutical applications. The cavity filled and full bore designs aid to reduce product entrapment, and provide consistent flow characteristics.

The BV3-3A Series is an economical automated valve packaged with an either an electric or pneumatic actuator. Electrically actuated models have a standard weatherproof, NEMA 4 (IP56) enclosure, powered by a 115 VAC supply, and are available in either two-position or proportional control. The 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 a visual indicator, manual override, thermal overload protection, and permanently lubricated gears.

The pneumatic double acting actuator uses an air supply to drive the valve open and closed. The actuator has two supply ports with one driving the valve open and the other driving the valve closed. Spring return pneumatic actuators use the air supply to open the valve and internally loaded springs return the valve to the closed position. Also available is the SV3 solenoid valve to electrically switch the air supply pressure between the air supply ports for opening and closing the valve. Actuators are constructed of anodized and epoxy coated aluminum for years of corrosion free service.

**FEATURES**
- Designed to meet 3A sanitary standards
- Ideal sanitary ball valve for food, beverage, semi-conductor, or pharmaceutical applications
- 240 grit bore polish
- 3-piece SS investment cast body
- Cavity filled design

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Body</th>
<th>3-piece</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Size</td>
<td>1/2” to 4”</td>
</tr>
<tr>
<td>End Connections</td>
<td>Tri-clamp (liner meets BS 4825, part 3)</td>
</tr>
<tr>
<td>Pressure Limit</td>
<td>1/2” to 2”: 1000 psi (69 bar) WOG; 2-1/2” to 4”: 800 psi (55 bar) WOG</td>
</tr>
<tr>
<td>Wetted Materials</td>
<td>Body, ball, end caps: CF8M SS; Seats, body seal, thrust washer, packing: TFE</td>
</tr>
<tr>
<td>Temperature Limit</td>
<td>-40 to 450°F (-40 to 232°C) CWP</td>
</tr>
<tr>
<td>Other Materials</td>
<td>304 SS, Vinyl</td>
</tr>
<tr>
<td>Agency Approvals</td>
<td>Meets 3A</td>
</tr>
</tbody>
</table>

**ACTUATORS**

- **Electric**
  - Power Requirements: 115 VAC, 60 Hz, single phase. Optional 220 VAC, 24 VDC, 12 VDC, 24 VDC.
  - Power Consumption (Locked Rotor): DA Series is double acting and SR Series is spring return (rack and pinion). Normal Supply Pressure: 80 psi (5.5 bar). Maximum Supply Pressure: 120 psi (8 bar).
  - Air Connections: DA/SR1 to 5: 1/8” female NPT, all other sizes: 1/4” female NPT. Air Consumption (per stroke): DA1: 1.71 in³; DA2: 9.34 in³; DA4: 20.5 in³; DA6: 66.7 in³; DA7: 103.7 in³; SR2: 7.69 in³; SR3: 14.22 in³; SR6: 54.37 in³; SR7: 85.43 in³; SR9: 215.11 in³.
  - Cycle Time (90°): DA1: .05 s; DA2: .12 s; DA4: .12 s; DA6: .27 s; DA7: .47 s; SR2: .09 s; SR3: .14 s; SR6: .48 s; SR7: .78 s; SR9: 1.34 s.
- **Solenoid**
  - Power Consumption (Locked Rotor): DA Series is double acting and SR Series is spring return (rack and pinion). Normal Supply Pressure: 80 psi (5.5 bar). Maximum Supply Pressure: 120 psi (8 bar).
  - Air Connections: DA/SR1 to 5: 1/8” female NPT, all other sizes: 1/4” female NPT. Air Consumption: DA1: 1.71 in³; DA2: 9.34 in³; DA4: 20.5 in³; DA6: 66.7 in³; DA7: 103.7 in³; SR2: 7.69 in³; SR3: 14.22 in³; SR6: 54.37 in³; SR7: 85.43 in³; SR9: 215.11 in³.

**OPTIONS**

- Explosion Proof Electric Actuators: add “EX” to model number
- Optional Electric Actuator Supply Voltages: Contact factory for model number change and price.
- Solenoid Valve: See Model SV3