Automated Ball Valve - 3-Way SS NPT

Electric and Pneumatic Actuators

The Series 3BV3 incorporates a full port design for maximum flow rates with minimal pressure drop. Features include a blowout proof stem for added safety and reinforced RTFE seats and seals for longer life and leak free operation. The four seat design allows for high cyclic capabilities and tight shut-off in any position. Perfect for mixing or diverting services in the food and chemical processing industries.

- Spring return pneumatic actuators use the air supply to drive the valve stem one direction, and a permanently lubricated gear train.
- The 3BV3 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 each of the valve ports open or closed, while the modulating actuator accepts a 4 to 20 mA input for infinite valve positioning. Actuator features include thermal overload protection to withstand stall conditions, visual position indication and a permanently lubricated gear train.

### How To Order:
1. Select **Model No.** to specify pipe size and actuator.
2. Choose a **Port Configuration** to determine valve flow path.

**Example:** 3BV3SR404-T2

### Options
- **Explosion Proof Electric Actuators**: 
  - Add "-EX" to model number
- **Optional Electric Actuator Supply Voltages**: 
  - Contact factory for model number change
- **Solenoid Valve**: See Model SV3.

### Specifications
- **Service**: Compatible liquids, gases or steam.
- **Body**: 3-way.
- **Line Size**: 1/2" to 2".
- **End Connections**: Female NPT.
- **Pressure Limit**: 316 SS; Ball: 316 SS; Seat, stem seal: 316 SS; Valve Stem: 316 SS; O-ring: Fluoroelastomer.
- **Normal Supply Pressure**: 80 psi (5.5 bar).
- **Maximum Supply Pressure**: 120 psig (8.4 bar).
- **Air Connections**: DA/SR1 to 5: 1/8" NPT, all other sizes: 1/4" female NPT.
- **Air Consumption**: (per stroke) DA1: 2.32 cu. ft. (66 liters); DA2, SR2: 3.94 cu. ft. (110 liters); DA3, SR3: 17.21 cu. ft. (486 liters); DA4, SR4: 20.5 cu. ft. (581 liters); SR5: 39.54 cu. ft. (1110 liters); SR6: 54.37 cu. ft. (1525 liters); SR7: 85.43 cu. ft. (2425 liters).
- **Duty Cycle**: Two position: 1/2", 1/4"; 3/4", 1/2": 25%; Modulating: 75%.
- **Enclosure Rating**: NEMA 4. Optional NEMA 7.
- **Housing Material**: Aluminum with thermal bonding polyester powder finish.
- **Temperature Limit**: 0 to 150°F (-18 to 65°C).
- **Conduit Connection**: 1/2" female NPT. Modulating Input: 4 to 20 mA.
- **Standard Features**: Manual override and visual position indicator.
- **Pneumatic “DA” and “SR” Series**
  - Type: DA series is double output actuator and SR series is spring return (rack and pinion).
  - Maximum Supply Pressure: 80 psi (5.5 bar).
  - Air Connections: DA/SR1 to 5: 1/8" female NPT, all other sizes: 1/4" female NPT.
  - Air Consumption: (per stroke) DA1: 2.32 cu. ft. (66 liters); DA2, SR2: 3.94 cu. ft. (110 liters); DA3, SR3: 17.21 cu. ft. (486 liters); DA4, SR4: 20.5 cu. ft. (581 liters); SR5: 39.54 cu. ft. (1110 liters); SR6: 54.37 cu. ft. (1525 liters); SR7: 85.43 cu. ft. (2425 liters).
  - Duty Cycle: Two position: 1/2", 1/4"; 3/4", 1/2": 25%; Modulating: 75%.
  - Housing Material: Anodized aluminum body and epoxy coated aluminum end caps.
  - Temperature Limit: -4 to 180°F (-20 to 82°C).
  - Accessory Mounting: NAMUR standard.

### Table

<table>
<thead>
<tr>
<th>Port Configuration</th>
<th>Act.Open</th>
<th>Act.Closed</th>
</tr>
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<tbody>
<tr>
<td>&quot;T&quot; Port</td>
<td>L1</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>L2</td>
<td>C</td>
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<tr>
<td></td>
<td>L3</td>
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<table>
<thead>
<tr>
<th>Cv</th>
<th>L-Port T-Port</th>
<th>Double Acting Pneumatic</th>
<th>Spring Return Pneumatic</th>
<th>Two Position Electric</th>
<th>Modulating Electric</th>
<th>OPTIONS</th>
</tr>
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<tbody>
<tr>
<td>1/2&quot;</td>
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<td>16.0</td>
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<td>3BV3SR202</td>
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<td>3BV3V102</td>
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<td>3BV3U103</td>
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<td>3BV3SR404</td>
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<td>3BV3DA407</td>
<td>3BV3SR707</td>
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* Complete model includes Port Configuration - see "How To Order" above.