Automated Ball Valve - 3-Way SS NPT

**Electric and Pneumatic Actuators**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service</td>
<td>Compatible liquids, gases or steam.</td>
</tr>
<tr>
<td>Body</td>
<td>3-way.</td>
</tr>
<tr>
<td>Line Size</td>
<td>1/2&quot; to 2&quot;.</td>
</tr>
<tr>
<td>End Connections</td>
<td>Female NPT.</td>
</tr>
<tr>
<td>Pressure Limit</td>
<td>1000 psi (69 bar) WOG.</td>
</tr>
<tr>
<td>Wetted Materials</td>
<td>Body: end cap, stem: 316 SS; Ball: 316 SS; Seat, stem seal: RTFE.</td>
</tr>
<tr>
<td>Other Materials</td>
<td>Body seal, body O-ring, stem O-ring: Fluoroelastomer.</td>
</tr>
</tbody>
</table>

**ACTUATORS Electric**

**Power Requirements:** 120 VAC, 50/60 Hz, single phase. Optional 220 VAC, 24 VAC, 12 VDC, and 24 VDC.

**Power Consumption (Locked Rotor Current):**
- Two position: 1/2": .35 A, 3/4" to 1-1/2": .75 A, 2": 1.1 A; Modulating: 1/2": 1 to 1-1/2": .75 A, 2": 1.1 A.
- Cycle Time (per 90°): Two position: 1/2": 2.5 s, 3/4" to 1-1/4": 5 s, 1-1/2": 10 s, 2": 15 s; Modulating: 1/2" to 1-1/4": 5 s, 1-1/2": 10 s, 2": 15 s.
- Duty Cycle: Two position: 1/2": 75%, 3/4" to 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.

**Normal Supply Pressure:** 80 psi (5.5 bar).

**Maximum Supply Pressure:** 120 psig (8.6 bar).

**Air Connections:** DA/SR1 to 5: 1/8" NPT female, all other sizes: 1/4" female NPT.

**Air Consumption:**
- DA series is double acting and SR series is spring return (rack and pinion).
- DA1: .015 ft³/s (0.8441 L/s) at 20 psig (137.9 kPa).
- DA2: .03 ft³/s (1.7048 L/s) at 20 psig (137.9 kPa).
- DA3: .06 ft³/s (3.4096 L/s) at 20 psig (137.9 kPa).
- DA4: 0.12 ft³/s (7.0192 L/s) at 20 psig (137.9 kPa).
- DA5: 0.25 ft³/s (14.5384 L/s) at 20 psig (137.9 kPa).

**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.

**Standard Features:** Visual position indicator.

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**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

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**Port Configuration and Flow Path**

<table>
<thead>
<tr>
<th>Port Configuration</th>
<th>Act. Open</th>
<th>Act. Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;T&quot; Port</td>
<td>All Open</td>
<td>A-B</td>
</tr>
<tr>
<td></td>
<td>A-B</td>
<td>A-C</td>
</tr>
<tr>
<td></td>
<td>B-C</td>
<td>B-C</td>
</tr>
<tr>
<td></td>
<td>B-C</td>
<td>All Open</td>
</tr>
<tr>
<td>&quot;L&quot; Port</td>
<td>B-C</td>
<td>All Open</td>
</tr>
<tr>
<td></td>
<td>A-B</td>
<td>All Closed</td>
</tr>
<tr>
<td></td>
<td>L-2</td>
<td>L-3</td>
</tr>
</tbody>
</table>

**Valve Specifications**

- Pressure Limit: 1000 psi (69 bar) WOG.
- Wetted Materials: Body: end cap, stem: 316 SS; Ball: 316 SS; Seat, stem seal: RTFE.
- Power Consumption (Locked Rotor Current): Two position: 1/2": .35 A, 3/4" to 1-1/2": .75 A, 2": 1.1 A; Modulating: 1/2": 1 to 1-1/2": .75 A, 2": 1.1 A.
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- Duty Cycle: Two position: 1/2": 75%, 3/4" to 2": 25%; Modulating: 75%.
- 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.
- Normal Supply Pressure: 80 psi (5.5 bar).
- Maximum Supply Pressure: 120 psig (8.6 bar).
- Air Connections: DA/SR1 to 5: 1/8" NPT female, all other sizes: 1/4" female NPT.
- Air Consumption: DA1: .015 ft³/s (0.8441 L/s) at 20 psig (137.9 kPa).
- DA2: .03 ft³/s (1.7048 L/s) at 20 psig (137.9 kPa).
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- DA5: 0.25 ft³/s (14.5384 L/s) at 20 psig (137.9 kPa).
- 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.
- Standard Features: Visual position indicator.

**Contact Factory for Model Number Change:**...