Automated Ball Valve - 3-Way SS NPT

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.

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 volt AC power. Standard 120 volt self-contained power supply is provided.

The pneumatic “DA” and “SR” series is spring return (rack and pinion). Modulating units are NAMUR and feature NAMUR seated body and NAMUR seated bonnet for optional fitting. Standard features: Manual override and visual position indicator except modulating units.

The pneumatic double acting actuator uses the air supply 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.

The pneumatic double acting actuator uses an air supply to drive each of the actuator ports. Spring return pneumatic actuators use the air supply to drive the valve stem one direction, and internally loaded springs return the valve to its original position. Also available is the 3BV3 solenoid valve to electrically switch the supply pressure between the air supply ports.

Actuators are constructed of anodized aluminum and are epoxy coated for years of corrosion free service.

### 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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**SPECIFICATIONS**

- **Service:** Compatible liquids, gases or steam.
- **Body:** 3-way.
- **Line Size:** 3/4” to 2”.
- **End Connections:** Female NPT.
- **Pressure Limit:** 150 psig (10.3 bar) SWP.
- **Wetted Materials:** Body, end cap, stem: 316 SS; Ball: 316 SS; Seal: RTFE. Other Materials: Body seal, body O-ring, stem O-ring: Fluororesin.

**ACTUATORS**

- **Electric Power Requirements:** 120 VAC, 50/60 Hz, single phase. Optional 220 VAC, 24 VDC, and 24 VDC.
- **Power Consumption (Locked Rotor Current):** Two position: 3/4” - 3/4”; 1/2” - 1/2”; 1” - 1/2”; 1-1/4” - 1-1/2”; 1” - 2”.
- **Cycle Time:** (per 90°): Two position: 1/2” - 25 sec.; 3/4” - 1/4”; 1” - 1/2”.
- **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.
- **Standard Features:** Manual override and visual position indicator except modulating units.

**OPTIONS**

- **Explosion Proof Electric Actuators**
  - Add “-EX” to model number

**OPTIONS**

- **Optional Electric Actuator Supply Voltages**
  - Contact factory for model number change

**Actuator**

- **Actuator Size**
  - XX1
  - XX2-XX6

**Solenoid Valve**

- See Model SV3.

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**Call To Order:**
- U.S. Phone 219 879-8000
- U.K. Phone (+44) (0)1494-461707
- Australia Phone (+61) (0) 2 4272 2055

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**VARIOUS OPTIONS**

- **Valves, Actuators**
  - See “How to Order” above.
- **Items are subject to Schedule B discounts.**

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**PIPE SIZES**

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<tr>
<th>Cv</th>
<th>L-Port</th>
<th>T-Port</th>
<th>Double Acting Pneumatic</th>
<th>Spring Return Pneumatic</th>
<th>Two Position Electric</th>
<th>Modulating Electric</th>
<th>Price Adder</th>
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<tr>
<td>1/2”</td>
<td>10.0</td>
<td>16.0</td>
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* Complete model includes Port Configuration - see “How to Order” above.

- Items are subject to Schedule B discounts.