The 3ABV 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, 12 VDC, and 24 VDC. The 3ABV incorporates a standard port valve for great flow rates with minimal pressure drop. Features include a blowout proof stem for added safety and reinforced TFE seats and seals for longer life and leak-free operation. The four seat design allows for high cycle capabilities and tight shut-off in any position. Perfect for mixing or diverting services in the food and chemical processing industries.

**SV3 solenoid valve** to electrically switch the supply pressure between the air supply ports.

- **VAC supply**, and are available in either two-position or proportional control.
- Two-position actuator. Electrically actuated models are weatherproof, NEMA 4, powered by standard 115 VAC, 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 4.00 mA input for infinite valve position. 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 in one direction, and internally loaded springs return the valve to its original position. Also available is the SV3 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.

**Pneumatic Actuators**

- **Electric** [NEMA 4 ENCL.]
- **Explosion Proof Electric Actuators**

**Series 3ABV Automated Ball Valve - 3-Way Brass NPT Electric and Pneumatic Actuators**

**Standard Features:**
- Manual override
- **Temperature Limit:** 0 to 150°F (-18 to 65°C).
- **Conduit Connection:** 1/2" female NPT.
- Modulating Input: 4 to 20 mA.

**Port Configuration**

<table>
<thead>
<tr>
<th>Port Type</th>
<th>Port Configuration</th>
<th>Flow Path</th>
<th>Act Open</th>
<th>Act Closed</th>
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</thead>
<tbody>
<tr>
<td>&quot;T&quot; Port</td>
<td>&quot;T&quot; Port</td>
<td>All Open</td>
<td>A-B</td>
<td>A-C</td>
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<tr>
<td>&quot;L&quot; Port</td>
<td>&quot;L&quot; Port</td>
<td>L-1 Closed</td>
<td>L-2 C</td>
<td>L-3 L</td>
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**Double Acting Pneumatic**

<table>
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<tr>
<th>Cv</th>
<th>L-Port</th>
<th>T-Port</th>
<th>Model</th>
<th>Price</th>
<th>Spring Return Pneumatic</th>
<th>Price</th>
<th>Two Position Electric</th>
<th>Price</th>
<th>Modulating Electric</th>
<th>Price</th>
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</table>

**ACTUATORS**

- **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: 1/4" to 3/4": .55A, 1" to 2", .75A; Modulating: 1/4" to 3/4": .55A, 1" to 2": .75A.
- **Cycle Time:** (per 90°): 1/4" to 3/4": 2.5 sec., 1" to 2": 5 sec.
- **Duty Cycle:** Two position: 1/4" to 3/4": 75%, 1" to 2": 25%; Modulating: 75%.
- **Enclosure Rating:** NEMA 4. Optional NEMA 7.
- **Material:** Housing: Aluminum with thermal bonding polyester powder finish.

**OPTIONS**

- **Explosion Proof Electric Actuators**
- **Supply Voltages**
- **Contact factory for model number change**
- **Add $63.00**

**Visual position indicator except modulating units.**

**Pneumatic/”DA” and “SR” Series**

- **Type:** 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 psig (8 bar).
- **Air Connections:** DA1/SR1 to 1/8”, DA1/SR2 to 9/32”, DA3/SR3 to 17/32”, DA4/SR4 to 20 5/32”, DA5/SR5 to 33/32”.

**Assembly NAMUR standard.**

**Visual position indicator.**

**How To Order:**

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

**Example:** 3ABV1DA024-T.

**SERIES 3ABV** includes the SV3 solenoid valve to electrically switch the supply pressure between the air supply ports.