**Actuators** are constructed of anodized aluminum and are epoxy coated for years of corrosion resistant service. The pneumatic double acting actuator uses an air supply to drive each of the actuator ports. The modulating actuator accepts a 4-20 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 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 air pressure between the air supply ports. Actuators are constructed of anodized aluminum and are epoxy coated for years of corrosion resistant service.

**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.

### Automated Ball Valve - 3-Way Brass NPT

**Series 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. A unique 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.

**Specifications**

- **Service**: Compatible liquids, gases or steam.
- **Body**: 3-way.
- **Line Size**: 1/4” to 2”.
- **End Connections**: Female NPT.
- **Pressure Limits**: 1/4” to 1-1/4”; 435 psi (30 bar) WOG; 1-1/2”; 232 psi (16 bar) WOG; 2”; 145 psi (10 bar) WOG; 100 psi (6.9 bar) SWP.
- **Wetted Materials**: Body, end cap, stem: Brass; Ball: Brass, chrome plated; Seat, stem seal: TFE.
- **Pressure Limits**: SV3: 30” WC pressure, 1-1/2” (8.2 bar).
- **Temperature Limits**: 300°F (160°C).
- **ACTUATORS**
  - **Electric**
    - **Power Requirements**: 120 VAC, 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”; .34A, 1” to 2”; .45A.
    - **Duty Cycle**: Two position: 1/4” to 3/4”; 75%, 1” to 2”; 25%; Modulating: 75%.
    - **Enclosure Rating**: NEMA 4.
    - **Material**: Aluminum with thermal bonding polyester powder finish.
  - **Model**: DA/SR1 to 5: 1/8” female NPT, all other sizes: 1/4” female NPT.
  - **Pressure**: 120 psig (8.2 bar).
  - **Accessory Mounting**: NAMUR standard.
  - **Standard Features**: 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: 3ABV1DA204-T2

**Specifics**

<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>A-B</td>
<td>A-C</td>
</tr>
<tr>
<td>&quot;L&quot; Port</td>
<td>A-B</td>
<td>A-C</td>
</tr>
</tbody>
</table>

**Valve Body and End Cap Materials**

<table>
<thead>
<tr>
<th>Size</th>
<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>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>3.60</td>
<td>3.60</td>
<td>3.60</td>
<td>3ABV1DA105</td>
<td>3ABV1SV200</td>
<td>3ABV1UI100</td>
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<td>3/8”</td>
<td>4.08</td>
<td>4.08</td>
<td>4.08</td>
<td>3ABV1DA101</td>
<td>3ABV1SV201</td>
<td>3ABV1UI101</td>
<td>3ABV1UI101</td>
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<tr>
<td>1/2”</td>
<td>5.02</td>
<td>5.02</td>
<td>5.02</td>
<td>3ABV1DA102</td>
<td>3ABV1SV202</td>
<td>3ABV1UI102</td>
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<td>7.70</td>
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<td>3ABV1SV203</td>
<td>3ABV1UI103</td>
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<td>12.43</td>
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<td>3ABV1SV304</td>
<td>3ABV1UI204</td>
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<td>19.72</td>
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<td>3ABV1SV305</td>
<td>3ABV1UI205</td>
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<td>3ABV1SV406</td>
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<td>3ABV1SV507</td>
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