The **SERIES WE35** incorporates a full port 3-way brass ball valve for great flow rates with minimal pressure drop. The valve features a blowout proof stem for added safety, reinforced PTFE seats and seals for longer life, and a brass ball for better performance.

The **SERIES WE35** can be configured with either an electric or pneumatic actuator. Electric actuators are available in weatherproof or explosion-proof, a variety of supply voltages, and two-position or modulating control. Two-position actuators use the supply voltage to drive the valve open or closed, while the modulating actuator accepts a 4 to 20 mA input for valve positioning. Actuators feature thermal overload protection and permanently lubricated gear train.

The pneumatic double acting actuator uses an air supply to drive the valve open and closed. The actuator has two supply ports, with one driving the valve open and the other driving the valve closed. Spring return pneumatic actuators use the air supply to open the valve and internally loaded springs return the valve to the closed position. Also available is the SN solenoid valve to electrically switch the air supply pressure between the air supply ports for opening and closing the valve. Actuators are constructed of anodized and epoxy coated aluminum for years of corrosion free service.

### FEATURES/BENEFITS
- Capable of being configured to fit most applications
- Limit switches can be mounted to manual valves for remote monitoring
- Weatherproof or explosion-proof electric actuators
- Double acting or spring return anodized aluminum pneumatic actuators
- Full port design reduces the pressure drop across the valve

### APPLICATIONS
- Gas or liquid flow control
- Ideal for quick bubble tight shut-off
- Mixing or diverting liquids and gases

### SPECIFICATIONS

#### VALVE
- **Service**: Compatible liquids and gases.
- **Body**: 3-way.
- **Line Sizes**: 1/2 to 2”.
- **End Connections**: Female NPT.
- **Pressure Limits**: 600 psi (41 bar) WOG.
- **Wetted Materials**: Body, ball, and stem: Brass; Seat, seal, and packing: PTFE.
- **Temperature Limits**: -20 to 425°F (-30 to 220°C).
- **Other Materials**: O-ring: NBR; Handle, stem nut, ferrule: SS; Handle Sleeve: Vinyl; Body and cap: Nickle plated.
- **Agency Approvals**: Meets the technical requirements of EU Directive 2011/65/EU (RoHS II).

#### ACTUATORS
- **Pneumatic “DA” and “SR” Series**
  - **Type**: DA series is a double acting and SR series is a spring return (rack and pinion).
  - **Normal Supply Pressure**: DA: 40 to 115 psi (2.7 to 7.9 bar); SR: 80 psi (5.5 bar).
  - **Maximum Supply Pressure**: 120 psi (8.6 bar).
  - **Air Connections**: DA02 to DA03: 1/4” female NPT; SR02 to SR04: 1/4” female NPT.
  - **Housing Material**: Anodized aluminum body and epoxy coated aluminum end caps.
  - **Temperature Limits**: -40 to 176°F (-40 to 80°C).
  - **Accessory Mounting**: NAMUR standard.

- **Electric “TD” and “MD” Series**
  - **Power Requirements**: 110 VAC, 220 VAC, 24 VAC, or 24 VDC (MD models not available in 24 VDC).
  - **Power Consumption**: See instruction manual.
  - **Cycle Time (per 90°)**: TD01: 4 s; MD01: 10 s; TD02: 20 s.
  - **Duty Rating**: 85%.
  - **Enclosure Rating**: NEMA 4X (IP67).
  - **Housing Material**: Powder coated aluminum.
  - **Temperature Limits**: -22 to 140°F (-30 to 60°C).
  - **Electrical Connection**: 1/2” female NPT.
  - **Modulating Input**: 4 to 20 mA.
  - **Standard Features**: Manual override, position indicator, and TD models come with two limit switches.

- **Electric “TI” and “MI” Series**
  - **Power Requirements**: 110 VAC, 220 VAC, 24 VAC, 24 VDC.
  - **Power Consumption**: See instruction manual.
  - **Cycle Time (per 90°)**: See instruction manual.
  - **Duty Rating**: See instruction manual.
  - **Enclosure Rating**: NEMA 7, designed to meet hazardous locations: Class I, Group C & D; Class II, Group E, F & G; Division I & II.
  - **Housing Material**: Powder coated aluminum.
  - **Temperature Limits**: -40 to 140°F (-40 to 60°C).
  - **Electrical Connection**: 1/2” female NPT.
  - **Modulating Input**: 4 to 20 mA.
  - **Standard Features**: Position indicator and two limit switches.

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### Figures

- **Figure 1**: 3-WAY NPT BRASS BALL VALVE
- **Figure 2**: Full Port, Electric or Pneumatic Actuators
- **Figure 3**: Actuators direct mounted creating a compact assembly for tight spaces
- **Figure 4**: The Series WE35 can be configured with either an electric or pneumatic actuator.
- **Figure 5**: Electric actuators are available in weatherproof or explosion-proof, a variety of supply voltages, and two-position or modulating control.
- **Figure 6**: Two-position actuators use the supply voltage to drive the valve open or closed, while the modulating actuator accepts a 4 to 20 mA input for valve positioning.
- **Figure 7**: Actuators feature thermal overload protection and permanently lubricated gear train.
- **Figure 8**: The pneumatic double acting actuator uses an air supply to drive the valve open and closed.
- **Figure 9**: The actuator has two supply ports, with one driving the valve open and the other driving the valve closed.
- **Figure 10**: Spring return pneumatic actuators use the air supply to open the valve and internally loaded springs return the valve to the closed position.
- **Figure 11**: Also available is the SN solenoid valve to electrically switch the air supply pressure between the air supply ports for opening and closing the valve.

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**3-WAY NPT BRASS BALL VALVE**

Full Port, Electric or Pneumatic Actuators

<table>
<thead>
<tr>
<th>Size</th>
<th>Cv (gal/min)</th>
<th>Popular Hand Operated Model</th>
<th>Popular Double Acting Pneumatic Model</th>
<th>Popular Spring Return Pneumatic Model</th>
<th>Popular NEMA 4X Two Position Electric (110 VAC) Model</th>
<th>Popular NEMA 4X Modulating Electric (110 VAC) Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>13</td>
<td>WE35-CHD00-T1</td>
<td>WE35-CDAA02-T2</td>
<td>WE35-CRSA02-T2</td>
<td>WE35-CTD01-T2-A</td>
<td>WE35-CMD01-T2-A</td>
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<tr>
<td>3/4”</td>
<td>37</td>
<td>WE35-DHD00-T1</td>
<td>WE35-DDA02-T2</td>
<td>WE35-DSA02-T2</td>
<td>WE35-DTD01-T2-A</td>
<td>WE35-DMD01-T2-A</td>
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<tr>
<td>1”</td>
<td>49</td>
<td>WE35-EHD00-T1</td>
<td>WE35-EDA02-T2</td>
<td>WE35-ESA03-T2</td>
<td>WE35-ETD01-T2-A</td>
<td>WE35-EMD01-T2-A</td>
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<tr>
<td>1-1/4”</td>
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<td>WE35-FHD00-T1</td>
<td>WE35-FDA03-T2</td>
<td>WE35-FSA03-T2</td>
<td>WE35-FTD01-T2-A</td>
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<tr>
<td>1-1/2”</td>
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<td>WE35-GDA03-T2</td>
<td>WE35-GSA03-T2</td>
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<td>WE35-HDA03-T2</td>
<td>WE35-HSA04-T2</td>
<td>WE35-HTD02-T2-A</td>
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**MODEL CHART - HAND OPERATED & PNEUMATIC ACTUATOR**

<table>
<thead>
<tr>
<th>Example</th>
<th>WE35</th>
<th>WE35-CSR02-T1-A</th>
<th>WE35-CSR02-AA00</th>
<th>WE35-CSR02-A00</th>
<th>WE35-CSR02-A00</th>
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<tr>
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<td></td>
<td></td>
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<td>3/4” double acting</td>
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<tr>
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<td>Flow path A</td>
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<td>T2</td>
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<td>Flow path C</td>
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<td>T3</td>
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<td>24 VAC</td>
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<tr>
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<td>D</td>
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<td>E</td>
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**ACCESSORIES**

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<tbody>
<tr>
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<td>Air filter regulator, 0 to 120 psi</td>
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