The Series WE33 incorporates a full port 3-way tri-clamp SS 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 316 SS (ASTM CF8M) ball for better performance. Actuators are direct mounted creating a compact assembly for tight spaces. Limit switches are able to be mounted directly to the valves allowing for remote position indication.

The Series WE33 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 close, while the modulating actuator accepts a 4 to 20 mA input for valve positioning. Actuators feature thermal overload protection and permanently lubricated gear train.

**FEATURES**
- Capable of being configured to fit any application
- Limit switches can be mounted to manual valves for remote monitoring
- Cavity filled valve for sanitary applications

**SPECIFICATIONS**

**VALVE**
- **Service:** Compatible liquids and gases.
- **Body:** 3-way.
- **Line Sizes:** 1/2 to 2”.
- **End Connections:** Tri-clamp ends.
- **Pressure Limits:** 20” Hg to 1000 psi (-0.7 to 69 bar) up to 250°F.
- **Wetted Materials:**
  - Body and ball: 316 SS (CF8M);
  - Stem: 316 SS;
  - Seat, RTFE/PTFE;
  - Seal, Washer, and Packing: PTFE.
- **Temperature Limits:** -20 to 392°F (-29 to 200°C).
- **Other Materials:**
  - O-ring: Fluoroelastomer;
  - Handle: 304 SS;
  - Washer: 301 SS;
  - Stem Nut, Locking Device, Gland Ring: 304 SS;
  - Handle Sleeve: PVC.

**ACTUATORS**

**Pneumatic “DA” and “SR” Series**
- **Type:** DA series is double acting and SR series is 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:**
  - DA01: 1/8” female NPT;
  - 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 and MD02: 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).
- **Modulating Input:** 4 to 20 mA.
- **Standard Features:** Position indicator, two limit switches.

**Electric “TI” and “MI” Series**
- **Power Requirements:** 110 VAC, 220 VAC, 24 VAC or 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).
- **Modulating Input:** 4 to 20 mA.
- **Standard Features:** Position indicator and two limit switches.
### WE33 Hand Operated and Pneumatic Actuator Model Chart

<table>
<thead>
<tr>
<th>Example</th>
<th>Series</th>
<th>WE33-CSR02-T4-NN07</th>
<th>WE33-CSR02-T4-NN07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size and</td>
<td>CHD00</td>
<td>1/2˝ Hand Operated</td>
<td>1/2˝ Hand Operated</td>
</tr>
<tr>
<td>Actuator</td>
<td>DHD00</td>
<td>3/4˝ Hand Operated</td>
<td>3/4˝ Hand Operated</td>
</tr>
<tr>
<td></td>
<td>EHD00</td>
<td>1˝ Hand Operated</td>
<td>1˝ Hand Operated</td>
</tr>
<tr>
<td></td>
<td>GHD00</td>
<td>1-1/2˝ Hand Operated</td>
<td>1-1/2˝ Hand Operated</td>
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<tr>
<td>Valve</td>
<td>CDA01</td>
<td>1˝ Double Acting</td>
<td>1˝ Double Acting</td>
</tr>
<tr>
<td>Valve</td>
<td>DDA01</td>
<td>2˝ Double Acting</td>
<td>2˝ Double Acting</td>
</tr>
<tr>
<td>Valve</td>
<td>GDA02</td>
<td>2-1/2˝ Double Acting</td>
<td>2-1/2˝ Double Acting</td>
</tr>
<tr>
<td>Valve</td>
<td>HDA03</td>
<td>2˝ Double Acting</td>
<td>2˝ Double Acting</td>
</tr>
<tr>
<td>Valve</td>
<td>CSR02</td>
<td>1˝ Spring Return</td>
<td>1˝ Spring Return</td>
</tr>
<tr>
<td>Valve</td>
<td>DSR02</td>
<td>2˝ Spring Return</td>
<td>2˝ Spring Return</td>
</tr>
<tr>
<td>Valve</td>
<td>ESR03</td>
<td>1˝ Spring Return</td>
<td>1˝ Spring Return</td>
</tr>
<tr>
<td>Valve</td>
<td>GSR03</td>
<td>1-1/2˝ Spring Return</td>
<td>1-1/2˝ Spring Return</td>
</tr>
<tr>
<td>Valve</td>
<td>HSR04</td>
<td>2˝ Spring Return</td>
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</tr>
</tbody>
</table>

**Flow Path Position**
- T1: Flow Path A
- T2: Flow Path B
- T3: Flow Path C
- T4: Flow Path D
- L1: Flow Path E

**Solenoid**
- N: No Solenoid
- A: NEMA 4X NAMUR Solenoid

**Solenoid Voltage**
- A: 110 VAC
- B: 220 VAC
- C: 24 VAC
- D: 24 VDC
- E: None

**Positioner and Switches**
- 00: None
- 01: 42AD0 Exp Limit Switch
- 02: 45VD0 Exp Position Transmitter
- 03: 42AD0-8 ATEX Limit Switch
- 04: 42ADD-IE IECEx Limit Switch
- 05: VPI-M01 Limit Switch
- 06: QV-210101 Poly Limit Switch
- 07: VPS and P1 Prox Switch
- 08: 265ER-D5 Positioner
- 09: 285ER-D5 Smart Positioner

### WE33 Electric Actuator Model Chart

<table>
<thead>
<tr>
<th>Example</th>
<th>Series</th>
<th>WE33-DMD01-T2-B</th>
<th>WE33-DMD01-T2-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size and</td>
<td>CTD01</td>
<td>1/2˝ NEMA 4X Two Position</td>
<td>1/2˝ NEMA 4X Two Position</td>
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<tr>
<td>Actuator</td>
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<td>3/4˝ NEMA 4X Two Position</td>
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<td>1˝ NEMA 4X Two Position</td>
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<tr>
<td></td>
<td>GTD02</td>
<td>2˝ NEMA 4X Two Position</td>
<td>2˝ NEMA 4X Two Position</td>
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<tr>
<td></td>
<td>HTD02</td>
<td>2-1/2˝ NEMA 4X Two Position</td>
<td>2-1/2˝ NEMA 4X Two Position</td>
</tr>
<tr>
<td>Valve</td>
<td>CMD01</td>
<td>1˝ NEMA 4X Modulating</td>
<td>1˝ NEMA 4X Modulating</td>
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<td>GMD02</td>
<td>3˝ NEMA 4X Modulating</td>
<td>3˝ NEMA 4X Modulating</td>
</tr>
<tr>
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<td>HMD02</td>
<td>4˝ NEMA 4X Modulating</td>
<td>4˝ NEMA 4X Modulating</td>
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<td>1˝ Exp Two Position</td>
<td>1˝ Exp Two Position</td>
</tr>
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<td>3˝ Exp Two Position</td>
</tr>
<tr>
<td>Valve</td>
<td>GTD02</td>
<td>4˝ Exp Two Position</td>
<td>4˝ Exp Two Position</td>
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<td>10˝ Exp Electric Modulating</td>
<td>10˝ Exp Electric Modulating</td>
</tr>
</tbody>
</table>

**Actuator Voltage**
- A: 110 VAC
- B: 220 VAC
- C: 24 VAC
- D: 24 VDC
- E: None

### Accessories
- R2-2120, Air Regulator
- AFR2-2, Instrument Air Filter Regulator
- VB-01, Volume Booster

**Flow Paths**
- **’T’ Port Ball**
  - T1 Flow Path A
  - T2 Flow Path B
  - T3 Flow Path C
  - T4 Flow Path D
- **’L’ Port Ball**
  - L1 Flow Path E