The Series WE31 incorporates a full port 3-way 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 WE31 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.

FEATURES
• Capable of being configured to fit any application
• Limit switches can be mounted to manual valves for remote monitoring

SPECIFICATIONS
VALVE
Service: Compatible liquids and gases.
Body: 3-way.
Line Sizes: 1/4 to 2”.
End Connections: Female NPT.
Pressure Limits: 20” Hg to 1000 psi (-0.7 to 69 bar).
Wetted Materials:
Body and ball: 316 SS (CF8M);
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 DA04: 1/4” female NPT;
SR03 to SR07: 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 manual.
Cycle Time (per 90°):
TD01: 4 s;
MD01: 10 s;
TD02 and MD02: 20 s;
TD03 and MD03: 30 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: Position indicator and TD models come with two limit switches.

Electric “TI” and “MI” Series
Power Requirements: 110 VAC, 220 VAC, 24 VAC or 24 VDC.
Power Consumption: See manual.
Cycle Time (per 90°):
TI01 and MI01: 2.5 s;
TI02 and MI02: 5 s;
TI03 and MI03: 5 s;
TI04 and MI04: 10 s;
TI05 and MI06: 15 s.
Duty Rating:
Two-Position: TI01-TI06: 25%;
Modulating: MI01-MI06: 75%.
Enclosure Rating: NEMA 7.
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.
### Popular Models

<table>
<thead>
<tr>
<th></th>
<th></th>
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<tr>
<td>1/2&quot;</td>
<td>11</td>
<td>WE31-EHD00-T1</td>
<td>$510.00</td>
<td>WE31-CD202-T2</td>
<td>$275.00</td>
<td>WE31-CSR30-T2</td>
<td>$300.00</td>
<td>WE31-CD001-T2-A</td>
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<td>WE31-CMD001-T2-A</td>
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<td>WE31-FHD00-T1</td>
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<td>WE31-DDA02-T2</td>
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<td>WE31-DSR03-T2</td>
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<td>WE31-DEM02-T2-A</td>
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<td>WE31-EDA03-T2</td>
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<td>WE31-ERS04-T2</td>
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<td>$620.00</td>
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<td>WE31-HHD00-T1</td>
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<td>WE31-FSR05-T2</td>
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### WE31 Hand Operated and Pneumatic Actuator Model Chart

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<tr>
<th>Example</th>
<th>WE31</th>
<th>CSR03</th>
<th>T1</th>
<th>A</th>
<th>A0</th>
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<td></td>
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<td>316 SS 3-Way NPT</td>
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<tr>
<td>Size and Range</td>
<td>CHD00</td>
<td>1-1/2&quot; Hand</td>
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<td>DHD00</td>
<td>3/4&quot; Hand</td>
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<tr>
<td>Valve Position</td>
<td>T1</td>
<td>Flow Path A</td>
<td>-</td>
<td></td>
<td>T2</td>
<td>Flow Path B</td>
<td>-</td>
</tr>
<tr>
<td>Solenoid</td>
<td>N/A</td>
<td>No Solenoid</td>
<td>-</td>
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<td>N/A</td>
<td>No Solenoid</td>
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### WE31 Electric Actuator Model Chart

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<tr>
<th>Example</th>
<th>WE31</th>
<th>DMI02</th>
<th>T2</th>
<th>A</th>
<th>WE31-DMI02-T2-A</th>
<th>Price</th>
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<tbody>
<tr>
<td>Series</td>
<td>WE31</td>
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<td></td>
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<td>316 SS 3-Way NPT</td>
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<td>Size and Range</td>
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<td>1/2&quot; NEMA 4X Two Position</td>
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<td>DTD01</td>
<td>3/4&quot; NEMA 4X Two Position</td>
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<tr>
<td>Valve Position</td>
<td>T1</td>
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<td>T2</td>
<td>Flow Path B</td>
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<td>Actuator Voltage</td>
<td>A</td>
<td>110 VAC</td>
<td>-</td>
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<td>B</td>
<td>220 VAC</td>
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### Flow Paths

**T** Port Ball

<table>
<thead>
<tr>
<th>Flow Paths</th>
<th>T1</th>
<th>T2</th>
<th>T3</th>
<th>T4</th>
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</thead>
<tbody>
<tr>
<td>Flow Path A</td>
<td>Pos. 1</td>
<td>Pos. 2</td>
<td>Pos. 1</td>
<td>Pos. 2</td>
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<tr>
<td>Flow Path B</td>
<td>Pos. 1</td>
<td>Pos. 2</td>
<td>Pos. 1</td>
<td>Pos. 2</td>
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<tr>
<td>Flow Path C</td>
<td>Pos. 1</td>
<td>Pos. 2</td>
<td>Pos. 1</td>
<td>Pos. 2</td>
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<tr>
<td>Flow Path D</td>
<td>Pos. 1</td>
<td>Pos. 2</td>
<td>Pos. 1</td>
<td>Pos. 2</td>
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</table>

**L** Port Ball

<table>
<thead>
<tr>
<th>Flow Paths</th>
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<tbody>
<tr>
<td>Flow Path E</td>
<td>Pos. 1</td>
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### ACCESSORIES

R2-2120, Air Regulator .................................................. $30.00
AFR2-2, Instrument Air Filter Regulator .................................. 60.00
VB-01, Volume Booster .................................................. 165.00

① Items are subject to Schedule B discounts.

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**Flow Paths**

- **T** Port Ball
  - T1: Flow Path A, Pos. 1, Pos. 2
  - T2: Flow Path B, Pos. 1, Pos. 2
  - T3: Flow Path C, Pos. 1, Pos. 2
  - T4: Flow Path D, Pos. 1, Pos. 2

- **L** Port Ball
  - L1: Flow Path E, Pos. 1, Pos. 2

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**Valves, Ball, Automated**