Electric Actuators

WE Series Weatherproof
CSA Approved TYPE 4 & 4X
350-80,000 In-lbs. torque

XE Series Explosion Proof
ATEX Certified E Ex d IIB T4
690-25,900 In-lbs. torque

AWWA C540-93
WE-350

The WE-350 Electric Actuator is specifically designed to operate small size ball valves (1” and less), dampers and other quarter-turn devices.

**Features**

- Compact and light weight
- High resistance to corrosion due to hard anodizing on inside and outside with polyester powder coating on external surface
- Multi-voltage (AC85-265V/1PH, 24VDC)
- Standard space heater (0.5W)
- Weather proof (IP67)
- Push Button and Manual lever
- Wide, easy mounting base standard to ISO5211 (F03/F04/F05)
- Standard four limit switches
- Captive cover bolts
- Mechanical position indicator & LED lamp indicators (Open/Close)

**Construction**

- Manual Push Button
- Cable entry & Cable
  - Long Wire type (10p)
  - Standard Wire length: 47 ¼”w
  - PG11 CABLE PLUG
- Indicator
- 4 Limit Switches
  - Add CLOSE L/M S/W (White)
  - Add OPEN L/M S/W (Black)
  - CLOSE L/M S/W (Green)
  - OPEN L/M S/W (Red)
- 4 Captive cover bolts
- Mounting base (ISO 5211) F03, F04, F05

![Actuator Diagram](image)
### ELECTRIC ACTUATORS

#### Performance

<table>
<thead>
<tr>
<th>Type</th>
<th>Maximum Output Torque</th>
<th>Operating Time 60/50 Hz</th>
<th>Mounting Size</th>
<th>Electric Motor Stop</th>
<th>Supplying Power &amp; Rating Current (A) 60/50Hz, 1 Phase</th>
<th>Duty Cycle IEC34-1</th>
<th>Manual Level Angle</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE-350</td>
<td>354</td>
<td>12 sec.</td>
<td>ISO5211</td>
<td>A</td>
<td>110VAC 220VAC 24VDC</td>
<td>S4</td>
<td>50%</td>
<td>90°</td>
</tr>
<tr>
<td>WE-350HS</td>
<td>270</td>
<td>6.5 sec.</td>
<td>F03, F04, F05</td>
<td>2A</td>
<td>.12 .06 .46</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **WE-350HS**
  - Torque: 354 In-lbs
  - Operation Time: 6.5 sec.
  - Mounting Flange: F03/F04/F05
  - Cable Entry: PG 11 x 1
  - Operation Time: 10 sec

- **WE-350**
  - Torque: 270 In-lbs
  - Operation Time: 12 sec.
  - Mounting Flange: F03/F04/F05

- **Dimensions**
  - **ENCLOSURE:** IP67 (NEMA 4, 4X)
  - **TORQUE:** 354 In-lbs
  - **OPERATION TIME:** 10sec
  - **POSITION SWITCH:** 4 SPDT Switch
  - **CABLE ENTRY:** PG 11 x 1
  - **MOUNTING FLANGE:** F03/F04/F05 acc to DIN/ISO5211

- **Wiring Connection**
  - **MAIN POWER (AC or DC):**
    - AC 85-265VAC
    - DC 24VDC/3A
  - **SMPS**
  - **AUX, CONTACT 2 EXTRA SWITCHES MAX. 250VAC 5A**
  - **COM**
  - **OPEN**
  - **CLOSE**
  - **YEL ORA**
  - **BLA RED**
  - **SKY BLUE**
  - **WHI**
  - **BRO GREY**
  - **PUR GREY**
  - **BASE EARTH**

- **Dimensions of the Actuator**:
  - **Main PCB**
  - **Dimensions in:**
    - **Inches**: 3.53" x 2.17" x 4.59" (W x D x H)
    - **Dimensions (DIN 3777)**:
      - **4-Ø4.2 DRILL D.P15 M5 TAP D.P12 Ø36(DIN 3337 F03)**
      - **4-M6 TAP DP12 Ø50(DIN 3337 F05)**
      - **Wire: 47-1/4"**
WE-500

The WE-500 Electric Actuator is an extremely rugged design actuator used for small ball valves (2" and less), dampers and other quarter-turn devices. The actuator is TYPE 4, 4X and includes a visual indicator, two auxiliary switches and a compartment heater. A convenient wrench manual override shaft is standard on the WE-500. This actuator is the clear choice when a compact, efficient electric actuator is required!

Features

• Compact and light due to high grade aluminum alloy housing.
• High resistance to corrosion due to hard anodizing on inside and outside with polyester powder coating on external surface
• Output torque: 530 In-lbs.
• The actuator motor is a reversible, high torque and low current design.
• Weatherproof (IP67, NEMA 4, 4X)

Standard Configuration

• Manual override
• Wide, easy mounting base standard to ISO5211 (F03/F05/F07)
• Standard four limit switches. Two for operation, 2 auxiliary dry contacts
• Captive cover bolts
• Space heater
• Limit switches for tight, easy setting
• Terminal block (11P)
• Standard color : Red

Optional Configuration

Position Indication Unit (Potentiometer kit, PIU)

High resolution potentiometer with precisely machined gearing directly engaged with drive shaft provides continuous monitoring of position of valve and actuator.

TMC3 Electronic Modulating Card

• Auto Calibration for Easy Setup
• 10 Bit Microprocessor controller for precise positioning and control
• 4-20mA, 1-5mA, 0-10 VDC, 1-5 VDC, 0-135 Ohm or Command Signal Potentiometer
• TMC3 can be programmed to Fail in Place, Fail CW, or Fail CCW on loss of command signal
• Characterized Control options: Linear, Quick Opening (Square Root), or Equal Percentage (Square)
• OnBoard 4-20 mA transmitter (standard)

AC/DC 24V Control Unit

Dip Switch

<table>
<thead>
<tr>
<th>Mode</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>ON</td>
<td>OFF</td>
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<tr>
<td>AC</td>
<td>OFF</td>
<td>ON</td>
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</table>
ELECTRIC ACTUATORS

**Performance**

<table>
<thead>
<tr>
<th>Type (Model)</th>
<th>Maximum Output Torque</th>
<th>Operating Time 60/50 Hz</th>
<th>Mounting Size</th>
<th>Full Load Amps</th>
<th>Locked Rotor Amps</th>
<th>Duty Cycle</th>
<th>Number of Handle Turns</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE-500</td>
<td>530</td>
<td>90°</td>
<td>ISO5211</td>
<td>220V 24V</td>
<td>220V 24V</td>
<td>S2</td>
<td>N</td>
<td>6.61</td>
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</tbody>
</table>

**Standard Specification**

- **Enclosure**: Weatherproof enclosure IP67, NEMA 4, 4X
- **Power Supply**: 110/220V AC 1PH, 50/60Hz, ± 10%, 24V AC/DC
- **Duty cycle**: 70%
- **Motor**: Class F Reversible motor
- **Limit switches**: Open/Close, SPDT, 5A 125 VAC, 3A 250 VAC, 0.4A 125 VDC, 0.2A 250 VDC
- **Additional limit switches**: Open/Close, SPDT, 5A 1252 VAC, 3A 250 VAC, 0.4A 125 VDC, 0.2A 250 VDC
- **Space heater**: 2W (110/220V AC) Anti-condensation
- **Manual override**: Drive Nut (hexagon design)
- **Cable conduit**: Two 1/2” NPT
- **Movement angle**: 320° ± 10°
- **Ambient temperature**: -4°F - 158°F (optional -40°F Low Temp Kit)
- **External coating**: Polyester powder coating

**Options Specification**

- Potentiometer unit (1K) (TMC) Electronic Modulating Card
- 4-20mA, 1-5mA, 0-10 VDC, 1-5 VDC, 0-135 Ohm Command Signal
- Current position transmitter (Output 4-20mA DC)
- Multi(24VAC/DC) DC motor (24VDC)
- Local control unit:
  - remote/local/stop
  - open/close

**Dimensions**
Electric Actuators WE/XE

Window cover

Window

Position indicator
Option: illuminated red (close), green (open), yellow (over torque)

Actuator Cover
High corrosion-resistance due to anodizing on the inside and outside and polyester powder coating on the outside

Motor
Available in 1 Phase / 3 Phase, all motors are custom built for high-torque, low current draw and the highest duty cycle ratings offered. Fan Cooled Motor standard on model WE/XE 690 and larger

Limit Switch & Auxiliary Switch Set (standard)

Close Cam

Open Cam

Actuator Body

Mechanical Stops (rear side)

Dual Conduit Connection (rear)

Torque Switch System

Easy Mounting Base standard to ISO5211

Terminal Block

Capacitor

Manual Handwheel

Heater and Thermostat

Manual Override

Double reduction worm gear assembly is self locking with minimum backlash
WE-690 - 25900

Terminal block

- Extra terminals for customer’s convenience
- Spring Loaded Terminal Strip Provides Secure Connection

Heater

- Ceramic housing with thermostat to eliminate condensation (7-10 watt Standard).
- Optional High Wattage Heater for Low Temp applications to -40°

Captive cover bolt

- Cover bolts are specially designed to prevent loosening during maintenance or installation
- All external bolts are stainless steel for rust prevention

Indicator sustained by spring

- Direction of visual indicator is set by factory
- To change its direction simply grip the indicator plate and rotate to the new position
- Spring beneath indicator plate sustains the set position
- No need to loosen screw and tighten it again

Slot on window cover for draining water

- A drain slot is provided to eliminate water buildup on window
**WE/XE Series**

**WE NEMA 4, 4X & 6**

**XE NEMA 4, 4X, 6 & 7**

**SE NEMA 4, 4X, 6 & 9 IP68**

### Standard Specifications

- **Enclosure**: Weatherproof enclosure, IP67, TYPE 4, 4X, 6
- **AWWA**: Conforms to AWWA C540-93 requirements
- **Power supply**: 110/220V AC 1PH, 220V/380/440VAC, 3 Phase, 50/60Hz, ±10%
- **Control power supply**: 110/220V AC 1PH, 50/60Hz, ±10%
- **Duty cycle (on-off)**: 70% Max 1800 start/hour
- **Duty cycle (modulating)**: 70% Max 1800 start/hour
- **Motor**: Class F Reversible Induction motor
- **Limit switches**: Open / Close, SPDT, 16A 1/2HP 125/250VAC, 6A 125VDC, 0.3A 250VDC
- **Additional limit switches**: Open / Close, SPDT, 6A 125VDC, 0.3A 250VDC
- **Torque switches**: Open / Close, SPDT, 6A 125VDC, 0.3A 250VDC
- **Stall protection**: Built-in thermal protection, Open 302ºF (150ºC) / Close 207ºF (97ºC)
- **Travel angle**: ±10º
- **Indicator**: Continuous position indicator
- **Manual override**: Declutching mechanism
- **Self locking**: Provided by double worm gearing
- **Mechanical stopper**: Open / Close (external adjustable screws)
- **Space heater**: 7-10W (110/220V AC) Anti-condensation
- **Cable Conduit**: Two 3/4” NPT
- **Lubrication**: Grease moly (EP type)
- **Terminal block**: Spring loaded lever push type
- **Materials**: Steel, Aluminium alloy, Al bronze, Polycarbonate
- **Ambient temperature**: -4ºF — 158ºF (optional -40º Low Temp Kit)
- **Ambient humidity**: 90% RH Max. (non-condensing)
- **External coating**: Anodizing treatment before Dry powder, Polyester, Munsell no. 5R 3.5/12

### Acuator Model

<table>
<thead>
<tr>
<th>Acuator Model</th>
<th>Output Torque</th>
<th>90° Cycle Time (sec)</th>
<th>Motor Size</th>
<th>Full Load Amps</th>
<th>Locked Rotor Amps</th>
<th>Handwheel Turns</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE / XE</td>
<td>In-lbs.</td>
<td>60 / 50 Hz</td>
<td>Watts</td>
<td>AC/DC</td>
<td>1 Phase</td>
<td>3 Phase</td>
<td>AC/DC</td>
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<tr>
<td>-690</td>
<td>690</td>
<td>13 / 16</td>
<td>15</td>
<td>5</td>
<td>1.2</td>
<td>0.6</td>
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<tr>
<td>-1350</td>
<td>1350</td>
<td>21 / 25</td>
<td>40</td>
<td>6</td>
<td>2</td>
<td>1</td>
<td>0.28</td>
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<tr>
<td>-1700</td>
<td>1700</td>
<td>21 / 25</td>
<td>40</td>
<td>7.4</td>
<td>2.3</td>
<td>1.1</td>
<td>0.28</td>
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<tr>
<td>-2640</td>
<td>2640</td>
<td>26 / 31</td>
<td>40</td>
<td>8.9</td>
<td>2.3</td>
<td>1.3</td>
<td>0.27</td>
</tr>
<tr>
<td>-4400</td>
<td>4400</td>
<td>26 / 31</td>
<td>90</td>
<td>N/A</td>
<td>4.5</td>
<td>1.9</td>
<td>0.42</td>
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<tr>
<td>-5200</td>
<td>5200</td>
<td>26 / 31</td>
<td>90</td>
<td>N/A</td>
<td>4.5</td>
<td>2</td>
<td>0.42</td>
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<tr>
<td>-6900</td>
<td>6900</td>
<td>31 / 37</td>
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<td>0.61</td>
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<td>31 / 37</td>
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<td>N/A</td>
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<td>3.4</td>
<td>0.61</td>
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<td>17500</td>
<td>95 / 112</td>
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<td>5.8</td>
<td>2.4</td>
<td>0.61</td>
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<td>25900</td>
<td>95 / 112</td>
<td>180</td>
<td>N/A</td>
<td>6.3</td>
<td>3.4</td>
<td>0.61</td>
</tr>
</tbody>
</table>

Rev.20130924
Options Specifications

- Explosion-Proof enclosure II 2 G, E Ex d IIB T4, IP67
- Designed to comply with NEMA 7 Explosion Proof
- Watertight enclosure (IP68 10M 72HR)
- Potentiometer unit (1K ~10K)
- Proportional control unit (input, output 0~10V DC, 4~20mA DC)
- Semi-Integral control unit (Local/Remote Selector Switches)
- Intelligent Digital control unit (Local/Remote Selector Switches)
- Current position transmitter (output 4-20mA DC)
- Extension 120º, 180º, 270º turn
- Duty Cycle 70% max (in Ambient temperature)
- DC motor (24V DC)
- AC/DC 24V control
- Lever plate actuator
- Signal lamp unit (red-close, green-open, yellow-over torque)
- Fire Proofing Actuator 1050 ±5ºC/50 min
- Fire Proofing Actuator 250 ±5ºC/150 min

Explosion Proof Enclosure
- ATEX Certification
- Designed to comply with NEMA 7 Explosion Proof

Signal LED Unit
- Large indicator with monitoring lamps (Over torque, open and close)

Fire Proofing Acuator
- Removable Drive Bushing

High Speed Electric Actuators

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Torque</th>
<th>Speed (60Hz)</th>
<th>Torque Switch Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE-690*HS2</td>
<td>290 In-Lbs</td>
<td>4.5 seconds</td>
<td>N/A</td>
</tr>
<tr>
<td>WE-690*HS1</td>
<td>400 In-Lbs</td>
<td>7.0 seconds</td>
<td>N/A</td>
</tr>
<tr>
<td>WE-1350*HS2</td>
<td>840 In-Lbs</td>
<td>7.0 seconds</td>
<td>1,350 In-Lbs</td>
</tr>
<tr>
<td>WE-1350*HS1</td>
<td>1,200 In-Lbs</td>
<td>10.5 seconds</td>
<td>1,350 In-Lbs</td>
</tr>
<tr>
<td>WE-2640*HS2</td>
<td>1,390 In-Lbs</td>
<td>8.5 seconds</td>
<td>2,640 In-Lbs</td>
</tr>
<tr>
<td>WE-2640*HS1</td>
<td>2,050 In-Lbs</td>
<td>13.0 seconds</td>
<td>2,640 In-Lbs</td>
</tr>
<tr>
<td>WE-4400*HS2</td>
<td>2,350 In-Lbs</td>
<td>8.5 seconds</td>
<td>4,400 In-Lbs</td>
</tr>
<tr>
<td>WE-4400*HS1</td>
<td>3,500 In-Lbs</td>
<td>13.0 seconds</td>
<td>4,400 In-Lbs</td>
</tr>
<tr>
<td>WE-6900*HS2</td>
<td>4,500 In-Lbs</td>
<td>10.5 seconds</td>
<td>6,900 In-Lbs</td>
</tr>
<tr>
<td>WE-10500*HS1</td>
<td>6,700 In-Lbs</td>
<td>15.5 seconds</td>
<td>10,500 In-Lbs</td>
</tr>
<tr>
<td>WE-17500*HS2</td>
<td>12,000 In-Lbs</td>
<td>31.0 seconds</td>
<td>17,500 In-Lbs</td>
</tr>
<tr>
<td>WE-25900*HS1</td>
<td>18,000 In-Lbs</td>
<td>47.0 seconds</td>
<td>25,900 In-Lbs</td>
</tr>
</tbody>
</table>

Motor specifications remain the same.
*Must specify voltage - see part number matrix on back cover.
Modulating Options for WE-500-25900

**Modulating Cards**

**TMC3 Electronic Modulating Card**
- Auto Calibration for Easy Setup
- 10 Bit Microprocessor controller for precise positioning and control
- 4-20mA, 1-5mA, 0-10 VDC, 1-5 VDC, 0-135 Ohm or Command Signal Potentiometer
- TMC3 Can be programmed to Fall in Place, Fail CW, or Fail CCW on loss of command signal
- Characterized Control-Linear, quick opening (Square root), or Equal Percentage (Square)
- OnBoard 4-20 mA transmitter (standard)

**TDC Electronic Modulating Card**
- 450 Point Resolution, 16 Bit Micro Processor
- Auto Calibration
- Adaptive Control Feature (continuously adjusts for load and actuator conditions and positions to ±0.1°)
- Dynamic Breaking
- 4-20mA, 1-5V, 0-5V, 0-10V
- Programmed to Fail in place, Fail CW, or Fail CCW on loss of command signal
- 4-20mA Feedback Transmitter (Optional)

**EPC Electronic AS-i Network Card**
- AS-i Version 2.1
- 120 VAC or 24VDC Power
- Emergency Override-Normal Operation is overridden when actuator is driven to either Ch or CCh position on command
- Built in Emergency Position Command (EPC) overrides normal operation and automatically operates the valve into either the open or closed position (normally this is the closed position) as defined in the user specifications
- Signal Sentinel continuously monitors the EPC system offering additional failsafe backup in the event of an unexpected local event

**Boiler Feedwater Application**
- Control signal 4-20mA, specify these parts: LRC-100, POT-102 & Extended Bracket.
- Control signal 0-135 ohm, specify these parts: TDC-100, XMA-108, POT-102 & Extended Bracket

**Other Network Cards Available Upon Request**
Special Application

Intelligent Digital Control Unit
- Light, compact and integral design
- Wide range of electric power application (AC 220V~AC480V/3 Phase)
- Built-in auto phase discriminator (easy and convenient wiring)
- Digital indicator with number, bar graph, menu and (3) LED lamps
- Separate terminal chamber (Reliable against water, vibration, temperature, etc.)
- Easy application for WE-Series Actuators
- Various options available

Semi-Integral Control Unit
- Light, compact and integrated design (IMS, Local/Remote control)
- Wide range of electric power application (AC 115V~AC480V/1 Phase or 3 Phase)
- Phase protection monitoring by LED in case of reverse wiring
- Easy application for WE-Series Actuators
- Various options available

LED lamp signal
<table>
<thead>
<tr>
<th>LED</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>Power</td>
</tr>
<tr>
<td>Blue</td>
<td>Remote</td>
</tr>
<tr>
<td>Yellow</td>
<td>Fault</td>
</tr>
<tr>
<td>Red</td>
<td>Open/Opening</td>
</tr>
<tr>
<td>Green</td>
<td>Close/Closing</td>
</tr>
</tbody>
</table>
Dimensional Drawing

WE/XE-690, 1350, 1700, 2640, 4400, 5200, 6900, 10500

WE/XE-17500, 25900

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>WE/XE</th>
<th>ISO 5211</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D sq</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
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<tbody>
<tr>
<td>-690</td>
<td>F97</td>
<td>M8</td>
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<td>2.756</td>
<td>0.669</td>
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<td>4.72</td>
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<td>10.16</td>
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<tr>
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<td>F07/F10</td>
<td>M8/M10</td>
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<td>M8/M10</td>
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<td>2.13</td>
<td>3.07</td>
<td>6.30</td>
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<td>13.31</td>
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<td>10.55</td>
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<tr>
<td>-2640</td>
<td>F10/F12</td>
<td>M10/M12</td>
<td>0.59</td>
<td>4.016</td>
<td>1.063</td>
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<td>1.92</td>
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Units (inches)
**Dimensional Drawing**

**WE-1350, 1700, 2640, 4400, 5200, 6900, 10500**  
*Intelligent Digital Control Unit*

**WE-17500, 25900**  
*Intelligent Digital Control Unit*

**Dimensions**

| Model WE | ISO 5211 | A | B | C | D sq | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | X | Y | Z |
| -1350    | F07/F10   | M8/M10 | 0.47 0.59 | 2.756/4.02 | 0.748 | 4.92 | 0.12 | 1.65 | 2.87 | 2.87 | 2.56 | 5.59 | 3.43 | 7.56 | 2.68 | 2.13 | 3.07 | 6.30 | - | - | 13.31 | 9.02 | 10.55 |
| -1700    | F07/F10   | M8/M10 | 0.47 0.59 | 2.756/4.02 | 0.748 | 4.92 | 0.12 | 1.65 | 2.87 | 2.87 | 2.56 | 5.59 | 3.43 | 7.56 | 2.68 | 2.13 | 3.07 | 6.30 | - | - | 13.31 | 9.02 | 10.55 |
| -2640    | F10/F12   | M10/M12 | 0.59 0.71 | 4.016/4.92 | 1.063 | 5.83 | 0.12 | 1.93 | 3.23 | 8.70 | 2.56 | 6.30 | 3.80 | 8.70 | 2.72 | 2.56 | 3.07 | 7.09 | - | - | 14.49 | 10.30 | 11.42 |
| -4400    | F10/F12   | M10/M12 | 0.59 0.71 | 4.016/4.92 | 1.063 | 5.83 | 0.12 | 1.93 | 3.23 | 8.70 | 2.56 | 6.30 | 3.80 | 8.70 | 2.72 | 2.56 | 3.07 | 7.09 | - | - | 14.49 | 10.30 | 11.97 |
| -5200    | F14/F12   | M12/M12 | 0.69 0.85 | 4.016/4.92 | 1.063 | 5.83 | 0.12 | 1.93 | 3.23 | 8.70 | 2.56 | 6.30 | 3.80 | 8.70 | 2.72 | 2.56 | 3.07 | 7.09 | - | - | 14.49 | 10.30 | 11.97 |
| -6900    | F14/F12   | M12/M12 | 0.69 0.85 | 4.016/4.92 | 1.063 | 5.83 | 0.12 | 1.93 | 3.23 | 8.70 | 2.56 | 6.30 | 3.80 | 8.70 | 2.72 | 2.56 | 3.07 | 7.09 | - | - | 14.49 | 10.30 | 11.97 |
| -10500   | F14/F16   | M14/M16 | 0.95 1.18 | 5.512 6.496 | 1.417 | 7.01 | 0.12 | 2.24 | 4.06 | 6.53 | 2.56 | 7.32 | 4.32 | 9.49 | 2.91 | 3.07 | 4.33 | 8.27 | - | - | 16.14 | 11.69 | 12.99 |
| -17500   | F16/20    | M16/M20 | 0.95 1.18 | 5.512 6.496 | 1.417 | 7.01 | 0.12 | 2.24 | 4.06 | 6.53 | 2.56 | 7.32 | 4.32 | 9.49 | 2.91 | 3.07 | 4.33 | 8.27 | - | - | 16.14 | 11.69 | 12.99 |
| -25900   | F16/20    | M16/M20 | 0.95 1.18 | 5.512 6.496 | 1.417 | 7.01 | 0.12 | 2.24 | 4.06 | 6.53 | 2.56 | 7.32 | 4.32 | 9.49 | 2.91 | 3.07 | 4.33 | 8.27 | - | - | 16.14 | 12.56 | 22.17 |

**Units (inches)**
Dimensional Drawing

WE-1350, 1700, 2640, 4400, 5200, 6900, 10500  Semi-integral Control Unit

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Wiring drawings are available upon request.
Wiring Connection

WE/XE-1350 thru 25900  Two Position 115 VAC/1 Ph  SE 1080

Wiring drawings are available upon request.

WEM/XEM-1350 thru 25900  Proportional 115 VAC/1 Ph  SE 1052

Wiring drawings are available upon request.
Wiring Connection

Digital Control Unit  3 Phase/Proportional  SE 1222

**NOTE:**
1. A JUMPER MUST BE PLACED BETWEEN 1, 2 & 4 TO OVERRIDE THE STOP INPUT REQUIREMENT & ANALOG INPUT READY.
2. A 4-20mA LOOP POWERED ANALOG SIGNAL MUST BE APPLIED TO TERMINALS 22 & 23.
3. NO EXTERNAL VOLTAGE SHOULD BE APPLIED TO TERMINALS 1 THRU 6.

Digital Control Unit  3 Phase/2 Position  SE 1301

**NOTE:**
1. A JUMPER MUST BE PLACED BETWEEN 1, 2 & 4 TO OVERRIDE THE STOP INPUT REQUIREMENT.
2. A CONTACT CLOSURE IS REQUIRED BETWEEN 1 & 6 TO DRIVE THE ACTUATOR CCW "OPEN" DIRECTION.
3. A CONTACT CLOSURE IS REQUIRED BETWEEN 1 & 6 TO DRIVE THE ACTUATOR CW "CLOSE" DIRECTION.
4. NO EXTERNAL VOLTAGE SHOULD BE APPLIED TO TERMINALS 1 THRU 6.
Wiring Connection

Semi-integral Unit  1 Phase/Proportional  SE 1176

Semi-integral Unit  1 Phase/2 Position  SE 1097

**NOTE:**
1. A JUMPER MUST BE PLACED BETWEEN 5, 6 & 9 TO OVERRIDE THE STOP INPUT REQUIREMENT.
2. 4-20mA LOOP POWERED ANALOG SIGNAL MUST BE APPLIED TO TERMINALS 23 & 24.
3. NO EXTERNAL VOLTAGE SHOULD BE APPLIED TO TERMINALS 5 THRU 9.

**LIMIT SWITCH CONTACT POSITIONS**
- OLS : OPEN LIMIT SWITCH
- OTS : OPEN TORQUE LIMIT SWITCH
- CTS : CLOSE TORQUE LIMIT SWITCH
- CTS : CLOSE LIMIT SWITCH
- O/C : OPEN/CLOSE POWER RELAY (DC 24V)

**LAMPS**
- WL : WHITE LAMP FOR POWER
- BL : BLUE LAMP FOR REMOTE
- GL : GREEN LAMP FOR CLOSE
- RL : RED LAMP FOR OPEN
- YL : YELLOW LAMP FOR FAULT

**RELAYS**
- RY1 : REMOTE MONITOR RELAY
- RY2/RY4 : RUNNING RELAY
- RY3 : FAULT RELAY
WE-53000 and WE-80000

Features

- Compact, robust and lightweight construction covers a wide range of torques up to 80000 In-lbs.
- Polyester powder coated exterior and hard anodized aluminum interior provides excellent protection from the most severe industrial environments.
- Double worm gear design prevents any valve movement from dynamic forces within the pipeline.
- Standard ISO 5211 mounting configuration provides direct mounting option to any ISO 5211 valve.
- Weatherproof enclosure with O-ring seal provides NEMA 4, 4X and 6 (IP67) protection.
- Declutchable manual override with hand wheel.
- Mechanical torque switches prevent motor and gear set damage during excessive torque scenarios.
- Large visual indicator allows for positive visual position indentification from greater distances.
- Digitized control components.

Standard Construction

- Manual override
- External Mechanical Stopper
- Two Conduit entries PF 3/4"
- Removable drive bushing and ISO5211 mounting base
- Standard four limit switches. Two for each travel end (open/close)
- Captive cover bolt
- Space heater
- Limit switches for tight, easy setting
- Spring loaded push type terminal
- Standard color : Red
Technical Information

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<th>Operating Time 60/50 Hz</th>
<th>Mounting Size</th>
<th>Motor Insulation Class</th>
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<th>Duty Cycle</th>
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Standard Specification

**Enclosure**
Weatherproof enclosure IP67, NEMA 4, 4X & 6, O-ring Sealed

**Power Supply**
220VAC/1PH/60Hz, 380/440/ VAC/3Ph/60Hz ± 10%, 24VDC

**Duty cycle**
30%

**Motor**
Squirrel Cage induction motor

**Limit switches**
2 each for Open/Close, SPDT, 250 VAC, 10A Rating

**Torque switches**
1 each for Open/Close, SPDT, 250 VAC, 10A Rating

**Space heater**
5W (220VAC) Anti-condensation

**Manual override**
Declutchable

**Cable conduit**
Two PF 3/4" TAP

**Movement angle**
90º ± 5º

**Ambient temperature**
-4ºF to 158ºF (optional -40º Low Temp Kit)

**Ambient Humidity**
90% RH Max (Non-Condensing)

**Position Indicator**
Continuous mechanical indicator with arrow

**Self locking**
Provided by double worm gearing (no brake)

**Mechanical Stopper**
1 for each travel end (open/close), external & adjustable

**Stall protection/set temp**
Built in thermal protection, Open 302ºF (150ºC) / Close 207ºF (97ºC)

**Terminal Block**
Spring loaded lever push type

**External coating**
Polyester powder coating

**Lubrication**
EP type grease

**Anti Vibration**
XYZ 10g, 0.2-34Hz, 30 minutes

Dimensions

![Dimensions Diagram]
### Triac WE / XE Series Part Number Reference

#### Model

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<td>Explosion Proof Design, ATEX &amp; IECEx Ex d IIB T4, IP67</td>
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<td>FE</td>
<td>Fire Proof Unit (1050°F for 50 Min)</td>
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<td>SE</td>
<td>Submersible unit (IP68, for 10 meters for 72 Hours)</td>
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#### Control

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<td>D</td>
<td>TDC-100 Modulating Card (Provides 450 points of resolution)</td>
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</tr>
<tr>
<td>-10500</td>
<td>10500</td>
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<tr>
<td>-17500</td>
<td>17500</td>
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<tr>
<td>-25900</td>
<td>25900</td>
</tr>
<tr>
<td>-53000</td>
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<tr>
<td>-80000</td>
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</table>

#### Motor

<table>
<thead>
<tr>
<th>Motor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>115VAC/1PH</td>
</tr>
<tr>
<td>A</td>
<td>24V AC/DC</td>
</tr>
<tr>
<td>B</td>
<td>12VDC</td>
</tr>
<tr>
<td>C</td>
<td>24VDC*</td>
</tr>
<tr>
<td>D</td>
<td>24VAC/1PH</td>
</tr>
<tr>
<td>E</td>
<td>220VAC/1PH</td>
</tr>
<tr>
<td>F</td>
<td>220VAC/3PH</td>
</tr>
<tr>
<td>G</td>
<td>380VAC/3PH</td>
</tr>
<tr>
<td>H</td>
<td>440VAC/3PH</td>
</tr>
<tr>
<td>J</td>
<td>460VAC/3PH</td>
</tr>
<tr>
<td>K</td>
<td>480VAC/3PH</td>
</tr>
</tbody>
</table>

#### Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>No options</td>
</tr>
<tr>
<td>2</td>
<td>ADM-100 Control Board - 24 VDC On/Off</td>
</tr>
<tr>
<td>B</td>
<td>Semi-integral Control Unit</td>
</tr>
<tr>
<td>C</td>
<td>Intelligent Digital Control Unit</td>
</tr>
<tr>
<td>D</td>
<td>Local / Remote Control Switches</td>
</tr>
<tr>
<td>E</td>
<td>Electronic Speed Control Module - 115 VAC only</td>
</tr>
<tr>
<td>F</td>
<td>2 Wire Control &amp; Speed Control - 115 VAC only</td>
</tr>
<tr>
<td>G</td>
<td>End of travel time delay (same in both directions)</td>
</tr>
<tr>
<td>HS1</td>
<td>See High Speed Options</td>
</tr>
<tr>
<td>HS2</td>
<td>See High Speed Options</td>
</tr>
<tr>
<td>R</td>
<td>2 Wire Control, Relay - 115 VAC control voltage</td>
</tr>
<tr>
<td>S</td>
<td>2 Wire Control, Relay - 24 VAC control voltage</td>
</tr>
<tr>
<td>T</td>
<td>2 Wire Control, Relay - 24 VDC control voltage</td>
</tr>
</tbody>
</table>

#### Miscellaneous Options

<table>
<thead>
<tr>
<th>Miscellaneous Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>No options</td>
</tr>
<tr>
<td>T</td>
<td>4-20mA Transmitter</td>
</tr>
<tr>
<td>N</td>
<td>1000 Ohm Potentiometer</td>
</tr>
<tr>
<td>O</td>
<td>5000 Ohm Potentiometer</td>
</tr>
<tr>
<td>P</td>
<td>10K Ohm Potentiometer</td>
</tr>
<tr>
<td>X</td>
<td>120° Operation</td>
</tr>
<tr>
<td>Y</td>
<td>180° Operation</td>
</tr>
<tr>
<td>Z</td>
<td>270° Operation</td>
</tr>
<tr>
<td>L</td>
<td>-40° Low Temp Kit</td>
</tr>
<tr>
<td>I</td>
<td>Position Indicator Lamps (Open, Close, Torque)</td>
</tr>
<tr>
<td>S</td>
<td>(2) additional limit switches (6 total)</td>
</tr>
</tbody>
</table>

#### Examples

**WEM-1350**
(Weather Proof Housing, Modulating Control, model size 1350, 115VAC / 1PH)

**WEM-1350XXT**
(Weather Proof Housing, Modulating Control, model size 1350, 115VAC / 1PH, 4-20mA Transmitter)

AT Controls reserves the right to change product designs and technical/dimensional specifications without notice.