

# Clack®

# WS2EE/QC

## WATER SPECIALIST CONTROL VALVE



**NSF**

Certified to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372.

- 2" top mount or side mount control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body
- Economical stainless steel optional meter assembly
- Service flow rate of 125 gpm, backwash 85 gpm
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer)
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficiency
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining or upflow brining, slow rinse, second backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with an 8 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refill
- Reliable and proven DC drive
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation



Optional 2" Meter



Side Mount Adapter

# Water Specialist 2" EE/QC Control Specifications

|                        |                 |
|------------------------|-----------------|
| Inlet/Outlet (1) ..... | 2" Female NPT   |
| Cycles .....           | Up to 6         |
| Valve Material .....   | Lead free brass |
| Regeneration .....     | Downflow        |

## CONTROL VALVE FLOW RATES

|                              |         |
|------------------------------|---------|
| Service @15 psi drop .....   | 125 gpm |
| Backwash @ 25 psi drop ..... | 85 gpm  |
| Cv Service .....             | 32.3    |
| Cv Backwash .....            | 17.0    |

## OPERATING PRESSURES

|                       |                  |
|-----------------------|------------------|
| Minimum/Maximum ..... | 20 psi – 125 psi |
|-----------------------|------------------|

## OPERATING TEMPERATURES

|                       |              |
|-----------------------|--------------|
| Minimum/Maximum ..... | 40° – 110° F |
|-----------------------|--------------|

## METER SPECIFICATIONS

|                      |                        |
|----------------------|------------------------|
| Accuracy .....       | ± 5%                   |
| Flow Rate Range..... | 1.5 – 150 gpm          |
| Gallon Range.....    | 20 – 1,500,000 gallons |
| Totalizer .....      | 1 – 9,999,000 gallons  |

## DIMENSIONS & WEIGHT

|  |   |
|--|---|
| Distributor Pilot                                    |   |
| Valve bodies with 2" Female NPT Inlet & Outlet ..... | 2.375" OD (2" NPS)  |
| Drain Line Connection .....                          | 1.5" Female NPT   |
| Brine Line Adapters Included.....                    | 1" Male NPT elbow,<br>3/4" x 1" solvent weld elbow and<br>1/2" OD Poly Tube Compression |
| Mounting Base.....                                   | 4" - 8 UN, 6" Flange or Side Mount  |
| Height From Top Of Tank with 4" - 8 UN QC Base ..... | 11.2"   |
| Height From Top Of Tank with 6" Flange QC Base ..... | 11.3"   |
| Shipping Weight With Meter .....                     | 30 lbs.   |

## ELECTRICAL SPECIFICATIONS

## POWER SUPPLY

|                       | U.S.                 | International    |
|-----------------------|----------------------|------------------|
| Supply Voltage .....  | 100VAC to 120VAC ... | 200VAC to 240VAC |
| Supply Frequency..... | 50/60 Hz .....       | 50/60 Hz         |
| Output Voltage .....  | 15VDC .....          | 15VDC            |
| Output Current .....  | 500 mA .....         | 500 mA           |

## TANK APPLICATIONS

|                       |                    |
|-----------------------|--------------------|
| Water Softener .....  | 12" – 48" diameter |
| Water Filter (2)..... | 12" – 36" diameter |

## CYCLES OF OPERATION

| Cycle   | Softener                 | Filter        |
|---|--------------------------|---------------|
|   | Range of time in minutes |               |
| 1. Backwash 1 <sup>st</sup> (upflow) .....                | 1-95.....                | Backwash 1-95 |
| 2. Regenerate Draw/Slow Rinse (downflow) .....            | 1-180                    |               |
| 3. Backwash 2 <sup>nd</sup> (upflow).....                 | 1-95                     |               |
| 4. Fast Rinse (downflow) .....                            | 1-95.....                | Rinse 1-95    |
| 5. Regenerant Refill (in service with treated water)..... | 0.1-99.0 or off          |               |
| 6. Service (downflow)                                     |                          |               |

### Options: Backwash Filter, Weather Cover

Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines.

1. See Distributor Pilot
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area