Clack®

# WS1EE

## WATER SPECIALIST CONTROL VALVE




shown with optional bypass

NSF

Certified to NSF/ANSI 44, NSF/ANSI/CAN 61 and 372.

- Solid state microprocessor with easy access front panel settings
- Service flow rate of 27 gpm, backwash 27 gpm
- 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/slow rinse, second backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with a 8 hour carry over
- Backwash and brining ability to 21” diameter tanks
- Downflow or upflow brining regeneration
- Level VI 15-volt output DC power supply provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Post treated water regenerant refill
- Reliable and proven DC drive
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation

# Water Specialist 1” EE Control Specifications

| | |
|---|---|
| Inlet/Outlet Fittings | ¾" to 1.5” NPS |
| Cycles | up to 6 |
| Valve Material | Fiber Reinforced Composite |
| Regeneration | Downflow |

**FLOW RATES**

| | |
|---|---|
| Service @15 psi drop (includes bypass and meter) | 27 gpm |
| Backwash @ 25 psi drop (includes bypass) | 27 gpm |
| Cv Service | 7.0 |
| Cv Backwash | 5.4 |

**OPERATING PRESSURES**

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

**OPERATING TEMPERATURES**

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

**METER**

| | |
|---|---|
| Accuracy | ± 5% |
| Flow Rate Range | 0.25 – 27 gpm |
| Gallon Range | 20 – 1,500,000 gallons |
| Totalizer | 1000 - 9,999,000 gallons |

**DIMENSIONS & WEIGHT**

| | |
|---|---|
| Distributor Pilot | 1.050" OD Pipe (¾" NPS) |
| Drain Line | ¾” or 1” Male NPT |
| Brine Line | ⅜” or ½” OD Poly Tube Compression |
| Mounting Base | 2 ½” - 8 NPSM |
| Height From Top Of Tank | 7 ⅜” |
| Weight | 4.5 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 | 6” – 21” diameter |
| Water Filter (1) | 6” – 21” diameter |

**CYCLES OF OPERATION (Softener Downflow)**

| Cycle | Softener Range of time in minutes | Filter |
|---|---|---|
| 1. Backwash 1st (upflow) | 1-95 | Backwash 1-95 |
| 2. Regenerate Draw/Slow Rinse (downflow) | 1-180 | |
| 3. Backwash 2nd (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, Bypass, Weather Cover*

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

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