

# Clack®



## WS1EE TWIN ALTERNATING CONTROL VALVE

### WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI 44, 61 and 372.

- Service flow 28 gpm, backwash flow 15 gpm with meter and bypass installed
- 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), and Tank in Service Indication
- 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
- 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
- 12-volt output AC Adapter provides safe and easy installation
- Treated/Soft water post fill and regeneration cycles
- Patented one piece expanding seal spacer stack assembly U.S. Patent 6,402,944
- Patented linearly reciprocating piston operation U.S. Patent 6,444,127
- Reliable and proven DC drives

# Water Specialist 1" EE Twin Alternating Specifications

Inlet/Outlet Fittings..... ¾" to 1.5" NPS  
 Cycles ..... up to 6  
 Valve Material ..... Noryl (1) or equivalent  
 Regeneration ..... downflow

## FLOW RATES

Service @15 psi drop (includes bypass and meter) ..... 28 gpm  
 Backwash @ 25 psi drop (includes bypass) ..... 15 gpm  
 Cv Service ..... 7.28  
 Cv Backwash ..... 2.96

## OPERATING PRESSURES

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

## OPERATING TEMPERATURES

Minimum/Maximum ..... 40° – 110° F

## METER

Accuracy ..... ± 5%  
 Flow Rate Range..... 0.25 – 30 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 ..... 16 lbs.

## ELECTRICAL SPECIFICATIONS

### AC Adapter

|                        | <u>U.S.</u>  | <u>International</u> |
|------------------------|--------------|----------------------|
| Supply Voltage .....   | 120V AC..... | 230V AC              |
| Supply Frequency ..... | 60 Hz .....  | 50 Hz                |
| Output Voltage .....   | 12V AC.....  | 12V AC               |
| Output Current .....   | 500 mA.....  | 500 mA               |

## TANK APPLICATIONS

Water Softener ..... 6" – 21" diameter  
 Water Filter (2)..... 6" – 16" diameter

## CYCLES OF OPERATION (Softener / Filter Downflow)

|                                     | <u>Softener</u>          | <u>Filter</u>  |
|-------------------------------------|--------------------------|----------------|
| Cycle                               | Range of time in minutes |                |
| 1. Backwash 1 <sup>st</sup> .....   | 1-120.....               | Backwash 1-120 |
| 2. Regenerate Draw/Slow Rinse ..... | 1-180                    |                |
| 3. Backwash 2 <sup>nd</sup> .....   | 1-120                    |                |
| 4. Fast Rinse .....                 | 1-120.....               | Rinse 1-120    |
| 5. Regenerant Refill .....          | 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. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area