

# Clack®

# WS1TC

## **WATER SPECIALIST CONTROL VALVE**



shown with optional bypass

- More informative 4 digit LCD Display with Status Indicators
- Solid state microprocessor with easy access front panel settings
- Service flow rate of 27 gpm, backwash 27 gpm
- Backwash and brining ability to 21" diameter tanks
- Front panel display for time of day, days until next regeneration
- Days between regeneration feature: 1-99 days standard; 7-day optional
- Double backwash feature offers optimum regeneration, cleaning ability and efficiency
- 10 selectable pre-programmed regeneration cycles
- Coin Cell Lithium battery back-up with a 8 hour carry over
- Auto detection of 50/60 Hz line frequency, with automatic 12/24 hour time keeping formats
- 12-volt output AC Adapter provides safe and easy installation
- Post treated water regenerant refill
- 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
- Patented quiet drain line flow control assembly U.S. Patent 6,776,901
- Reliable and proven DC drive

# Water Specialist 1" TC Control 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) ..... 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

## DIMENSIONS & WEIGHT

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

## CYCLES OF OPERATION (Softener Downflow)

| Cycle                                                     | Range of times minutes |
|-----------------------------------------------------------|------------------------|
| 1. Backwash 1 <sup>st</sup> (upflow) .....                | 3 - 12                 |
| 2. Regenerate Draw/Slow Rinse (downflow) .....            | 50 - 70                |
| 3. Backwash 2 <sup>nd</sup> (upflow) .....                | 3 - 12                 |
| 4. Fast Rinse (downflow) .....                            | 3 - 8                  |
| 5. Regenerant Refill (in service with treated water)..... | As Programmed          |
| 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