

# Clack®



# WS1TC

## WATER SPECIALIST CONTROL VALVE



shown with optional bypass



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

- 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
- 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

# Water Specialist 1” TC 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) ..... 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

## POWER SUPPLY

	<u>U.S.</u>	<u>International</u>
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	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. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area