

Clack Corporation 



# **WATER SPECIALIST 1" TC CONTROL VALVE**



shown with optional bypass

- **Backwash and brining ability to 22" diameter tanks**
- **Solid state microprocessor with easy access front panel settings**
- **Double backwash feature offers efficiency, optimum regeneration and cleaning ability**
- **Days between regeneration feature: 1–99 days standard; 7-day optional**
- **Downflow regeneration**
- **10 selectable pre-programmed regeneration cycles**
- **Stores system configuration and operation data in nonvolatile memory**
- **12-volt output AC Adapter provides safe and easy installation**
- **Control valve design provides optimum service and backwash rates**
- **Treated water regenerant refill**
- **Reliable and proven DC drive**

# Water Specialist 1" TC Control Specifications

Inlet/Outlet Fittings..... ¾" to 1.25" 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 ..... ⅜" or ½" OD Poly Tube  
 Mounting Base ..... 2 ½" - 8 NPSM  
 Height From Top Of Tank ..... 7 ⅜"  
 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" – 22" diameter  
 Water Filter (2) ..... 6" – 22" 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 General Electric
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area