

Clack™ 

**WS1
TC**

WATER SPECIALIST 1" TC CONTROL VALVE



shown with optional bypass

- **Backwash and brining ability to 21" 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**
- **Post treated water regenerant refill**
- **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 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" – 21" diameter
 Water Filter (2)..... 6" – 21" diameter

CYCLES OF OPERATION (Softener Downflow)

| Cycle | Range of times minutes |
|---|------------------------|
| 1. Backwash 1 st (upflow)..... | 3 - 12 |
| 2. Regenerate Draw/Slow Rinse (downflow) | 50 - 70 |
| 3. Backwash 2 nd (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