

Clack® 

# WS1CI TWIN ALTERNATING CONTROL VALVE

## WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI 44, 61 and 372.

- Service flow 106 lpm (6.36 m<sup>3</sup>/h) (28 gpm), backwash flow 57 lpm (3.40 m<sup>3</sup>/h) (15 gpm) with meter and bypass installed
- Solid state microprocessor with easy access front panel settings
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Fully programmable regeneration cycle sequence (maximum 9)
- Programmable regeneration cycle times
- Days override feature; 1 – 28 days available
- Backwash and brining ability to 21" diameter tanks
- Downflow/upflow regeneration
- Stores system configuration and operation data in nonvolatile memory
- Coin Cell Lithium battery back-up with a 24 hour carry over
- 12-volt output AC Adapter provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Soft/treated water regeneration
- Pre or Post soft/treated water regenerant refill
- Low salt alarm
- 24-hour clock
- 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 drive

# Water Specialist 1" CI Twin Alternating Specifications

Inlet/Outlet Fittings..... ¾" to 1.5" NPS  
 Cycles ..... up to 9  
 Valve Material ..... Noryl (1) or equivalent  
 Regeneration ..... downflow/upflow

## FLOW RATES

Service @ 15 psi/1 bar drop (includes bypass and meter)..... 106 lpm (6.36 m³/h) (28 gpm)  
 Backwash @ 25 psi/1.7 bar drop (includes bypass)..... 57 lpm (3.40 m³/h) (15 gpm)  
 Cv Service ..... 7.28  
 Cv Backwash ..... 2.96

## OPERATING PRESSURES

Minimum/Maximum ..... 20 - 125 psi (1.4 - 8.6 bar)

## OPERATING TEMPERATURES

Minimum/Maximum ..... 40° - 110° F (4° - 43° C)

## METER

Accuracy ..... ± 5%  
 Flow Rate Range..... 0.95 - 102 lpm  
 Volume Range ..... 0.02 - 5,700 m³  
 Totalizer ..... 1 m³ - 99,999 m³

## DIMENSIONS & WEIGHT

Distributor Pilot..... 1.050" OD Pipe (¾" NPS)  
 Drain Line ..... ¾" or 1" NPT  
 Brine Line ..... ⅜" or ½" OD Poly Tube Compression  
 Mounting Base..... 2 ½" - 8 NPSM  
 Height From Top Of Tank..... 7 ⅜" (187 mm)  
 Weight ..... 16 lbs (7.25 kg)

## 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

Choose up to nine regeneration cycles, in any order, with a wide range of available values:

Cycle	Range of values
Backwash.....	1 - 120 minutes
Rinse.....	1 - 120 minutes
Pause (service).....	1 - 480 minutes
Brine (co-current).....	1 - 180 minutes
Brine (counter-current).....	1 - 180 minutes
Refill (softener) .....	0.05 - 95.00 Kg
Refill (filter) .....	0.05 - 95.00 Liters

*Options: Backwash Filter, Bypass, Weather Cover*

Compatible with the following typical concentrations 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/407 lpm per square meter of bed area