

# Clack®

# WS1EI

## WATER SPECIALIST CONTROL VALVE



- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer)
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficiency
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining/slow rinse, second backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with an 8 hour carry over
- Backwash and brining ability to 21" diameter tanks
- Downflow or upflow brining regeneration
- Level VI 15-volt output DC power supply provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Post treated water regenerant refill
- Reliable and proven DC drive
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation
- Mixing valve option available

# Water Specialist 1” EI 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/1 bar drop (includes bypass and meter)..... 102 lpm (6.12 m<sup>3</sup>/h) (27 gpm)  
 Backwash @ 25 psi/1.7 bar drop (includes bypass)..... 102 lpm (6.12 m<sup>3</sup>/h) (27 gpm)

## 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 m<sup>3</sup>  
 Totalizer ..... 0.001 - 9,999,000 m<sup>3</sup>

## 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" (187 mm)  
 Weight ..... 4.5 lb. (2 kg)

## 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

Cycle	<u>Softener</u>	<u>Filter</u>
	Range of time in minutes	
1. Backwash 1 <sup>st</sup> (upflow) .....	1-95.....	Backwash 1-95
2. Regenerate Draw/Slow Rinse (downflow) .....	1-180	
3. Backwash 2 <sup>nd</sup> (upflow).....	1-95.....	Rinse 1-95
4. Fast Rinse (downflow) .....	1-95	
5. Regenerant Refill (in service with treated water).....	0.1-99.0	
6. Service (downflow)		

*Options: Backwash Filter, Weather Cover*

Compatible with the following typical concentrations 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/407 lpm per m<sup>2</sup> of bed area