

Clack® 

WS1EI

**WATER
SPECIALIST
CONTROL
VALVE**



Certified to NSF/ANSI 44, 61 and 372.

shown with optional bypass

- 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
- 12-volt output AC Adapter provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Post treated water regenerant refill
- 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" EI 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/1 bar drop (includes bypass and meter)..... 102 lpm (6.12 m³/h) (27 gpm)
Backwash @ 25 psi/1.7 bar drop (includes bypass)..... 102 lpm (6.12 m³/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 m³
Totalizer 0.001 - 9,999,000 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
Mounting Base 2 ½" - 8 NPSM
Height From Top Of Tank 7 ⅜" (187 mm)
Weight 4.5 lbs. (2 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

	<u>Softener</u>	<u>Filter</u>
Cycle	Range of time in minutes	
1. Backwash 1 st (upflow)	1-95.....	Backwash 1-95
2. Regenerate Draw/Slow Rinse (downflow)	1-180	
3. Backwash 2 nd (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. 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 m² of bed area

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