

Clack®



WS1EI

WATER SPECIALIST CONTROL VALVE



shown with optional bypass



Certified to NSF/ANSI/CAN 61, NSF/ANSI 44 and 372.

- 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 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

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 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. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area/407 lpm per m² of bed area