

# Clack®



## WS1.5EI

## TWIN ALTERNATING CONTROL VALVE

### WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI/CAN 61 and 372.

Interconnect fittings and piping not supplied.

- Service flow rate of 204 lpm (12.3 m<sup>3</sup>/h) (54 gpm), backwash flow 83 lpm, (4.9 m<sup>3</sup>/h), (22 gpm), with built in meter on side port of valve body and fitting kit 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
- Programmable regeneration cycle times
- Days override feature; 1 - 28 days available
- Backwash and brining ability for Softeners to 24" diameter tanks, backwash filters to 18"
- Downflow/upflow regeneration
- Stores system configuration and operation data in nonvolatile memory
- Coin Cell Lithium battery back-up with an 8 hour carry over
- Level VI 15-volt output DC power supply 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
- 12-hour clock
- Reliable and proven DC drives
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation

# Water Specialist 1.5" El Twin Alternating Specifications

Inlet/Outlet Fittings.....	1.5" QC fitting optional straight or 90°
Cycles .....	6
Valve Material .....	Glass Filled Composite
Regeneration .....	Downflow/Upflow

## FLOW RATES

Service @ 15 psi drop (includes fitting kit and meter).....	204 lpm (12.3 m³/h) (54 gpm)
Backwash @ 25 psi drop (includes fitting kit).....	83 lpm (4.9 m³/h) (22 gpm)
Cv Service .....	13.9
Cv Backwash .....	4.4

## OPERATING PRESSURES

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

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

Accuracy .....	± 5%
Flow rate range .....	0.95 - 216 lpm
Volume range .....	0.02 - 5,700 m³
Totalizer .....	1 - 99,999 m³

## DIMENSIONS AND WEIGHT

Distributor pilot .....	50mm or 1.90" OD (1.5" NPS)
Drain line .....	1" Male Elbow BSPT or NPT
Brine line .....	½" OD Poly Tube Compression
Mounting base .....	4" - 8 UN Thread
Height from top of tank.....	11"
Weight .....	18 lb

## ELECTRICAL SPECIFICATIONS

## POWER SUPPLY

U.S.

Supply voltage .....	100VAC to 240VAC
Supply frequency.....	50/60 Hz
Output voltage .....	15VDC
Output current.....	500 mA

## TANK APPLICATIONS

Water softener.....	12" - 24" diameter
Water filter (1) .....	12" - 18" diameter

## CYCLES OF OPERATION (Softener / Filter)

	<u>Softener</u>	<u>Filter</u>
Cycle	Range of time in minutes	
1. Backwash 1 <sup>st</sup> .....	Off-120.....	Backwash Off-120
2. Regenerate Draw/Slow Rinse .....	Off-180	
3. Backwash 2 <sup>nd</sup> .....	Off-120	
4. Fast Rinse .....	Off-120.....	Rinse Off-120
5. Regenerant Refill .....	0.1-99.0 or Off	
6. Service (downflow)		

*Options: Backwash Filter, Weather Cover*

Compatible with the following typical concentration of regenerants or chemicals: Sodium chloride, potassium chloride, chlorine and chloramines

1. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area