

Clack®

# WS1.5EE

**TWIN ALTERNATING  
CONTROL VALVE**

**WATER  
SPECIALIST  
CONTROL  
VALVE**



Certified to NSF/ANSI/CAN 61 and 372.

Interconnect fittings and piping not supplied.



- Service flow 54 gpm, backwash flow 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
- Fully programmable regeneration cycle times
- 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" EE Twin Alternating Specifications

Inlet/Outlet Fittings.....	1.5" QC fittings 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).....	54 gpm
Backwash @ 25 psi drop (includes fitting kit).....	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.....	0.5 - 75 gpm
Volume Range .....	20 - 1,500,000 gallons
Totalizer .....	1 - 9,999,000 gallons

## DIMENSIONS & WEIGHT

Distributor Pilot.....	1.90" OD (1.5" NPS)
Drain Line .....	1" Male NPT Elbow
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