

Clack®

WS1EI TWIN ALTERNATING CONTROL VALVE

WATER SPECIALIST CONTROL VALVE



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

- Service flow 106 lpm (6.36 m³/h) (28 gpm), backwash flow 57 lpm (3.40 m³/h) (15 gpm) with meter and bypass installed
- 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), and Tank in Service Indication
- 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 a 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
- Treated/Soft water post fill and regeneration cycles
- Reliable and proven DC drives
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation

Water Specialist 1" El Twin Alternating Specifications

Inlet/Outlet Fittings.....	¾" to 1.5" NPS
Cycles	up to 6
Valve Material	Glass Filled Composite
Regeneration	Downflow

FLOW RATES

Service @15 psi/1 bar drop (includes bypass and meter).....	106 lpm (6.36 m³/h) (28 gpm)
Backwash @ 25 psi/1.7 bar drop (includes bypass).....	57 lpm (3.40 m³/h) (15 gpm)
Cv Service	7.28
Cv Backwash	2.96

OPERATING PRESSURES

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

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

Accuracy	± 5%
Flow Rate Range.....	0.95 - 102 lpm
Gallon 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" Male NPT
Brine Line	¾" or ½" OD Poly Tube Compression
Mounting Base.....	2 ½" - 8 NPSM
Height From Top Of Tank.....	187 mm (7 ¾")
Weight	7.25 kg (16 lb)

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" – 16" diameter

CYCLES OF OPERATION (Softener / Filter Downflow)

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

Options: Backwash Filter, Bypass, Weather Cover

Compatible with the following typical concentration 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