

Clack®

WS1EI TWIN ALTERNATING CONTROL VALVE

WATER SPECIALIST CONTROL VALVE



- 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 regeneration
- 12-volt output AC Adapter provides safe and easy installation
- Treated/Soft water post fill and regeneration cycles
- 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
- Patented quiet drain line flow control assembly U.S. Patent 6,776,901
- Reliable and proven DC drives

Water Specialist 1" El Twin Alternating 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)..... 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)

OPERATING TEMPERATURES

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

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 ⅜" or ½" OD Poly Tube Compression
Mounting Base..... 2 ½" - 8 NPSM
Height From Top Of Tank..... 187 mm (7 ⅜")
Weight 7.25 kg (16 lbs.)

ELECTRICAL SPECIFICATIONS

AC Adapter

International

Supply Voltage 230V AC
Supply Frequency 50 Hz
Output Voltage 12V AC
Output Current 500 mA

TANK APPLICATIONS

Water Softener 6" – 21" diameter
Water Filter (2) 6" – 16" diameter

CYCLES OF OPERATION (Softener / Filter Downflow)

	Softener	Filter
Cycle	Range of time in minutes	
1. Backwash 1 st	1-95 or off.....	Backwash 1-95 or off
2. Regenerate Draw/Slow Rinse	1-180 or off	
3. Backwash 2 nd	1-95 or off	
4. Fast Rinse	1-95 or off.....	Rinse 1-95 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. 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