

Clack®

WS2EI

WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI 61 and 372.

- 2" Top mount control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body*
- Economical stainless steel optional meter assembly
- Service flow rate of 435 lpm (26.1 m³/h) (115 gpm), backwash 303 lpm (18.2 m³/h) (80 gpm)
- 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 or upflow brining, slow rinse, second backwash, fast rinse, refill and downflow service
- 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
- Post treatment water regenerant refill
- 24 Hour Clock
- Reliable and proven DC drive
- 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



Optional 2" Meter

Water Specialist 2" EI Control Specifications

Inlet/Outlet (1)	2" Female BSPT or NPT
Cycles	up to 6
Valve Material	Lead free brass
Regeneration	Downflow

CONTROL VALVE FLOW RATES

Service @ 1 bar/15 psi drop	435 lpm (26.1 m ³ /h) (115 gpm)
Backwash @ 1.7 bar/25 psi drop.....	303 lpm (18.2 m ³ /h) (80 gpm)
Cv Service	29.7
Cv Backwash	16.0

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 SPECIFICATIONS

Accuracy	± 5%
Flow Rate Range.....	5.7 - 568 lpm (1.5 - 150 gpm)
Volume Range	0.02 - 5,700 m ³
	(5 - 1,500,000 gallons)
Totalizer	0.001 - 4,294,000 m ³
	(.26 - 1,134,355,000 gallons)

DIMENSIONS & WEIGHT

Distributor Pilot	
Valve bodies with 2" Female BSPT Inlet & Outlet.....	50mm OD
Valve bodies with 2" Female NPT Inlet & Outlet	1.90" OD (1.5" NPS)
Drain Line Connection	1.5" Female NPT
Brine Line Adapters Included.....	1" Male NPT elbow, ¾" x 1" solvent weld elbow and ½" OD Poly Tube Compression
Mounting Base	4" - 8 UN
Height From Top Of Tank.....	216 mm (8.5")
Shipping Weight With Meter	13 Kg (29 lbs.)

ELECTRICAL SPECIFICATIONS

POWER SUPPLY

	U.S.	International
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	12" - 48" diameter
Water Filter (2)	12" - 36" diameter

CYCLES OF OPERATION

	Softener	Filter
Cycle	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. See Distributor Pilot

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