

# Clack®



## WS2EI

### WATER SPECIALIST CONTROL VALVE



**NSF**

Certified to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 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 m<sup>3</sup>/h) (115 gpm), backwash 303 lpm (18.2 m<sup>3</sup>/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
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation



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 <sup>3</sup> /h) (115 gpm)
Backwash @ 1.7 bar/25 psi drop.....	303 lpm (18.2 m <sup>3</sup> /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 <sup>3</sup> (5 - 1,500,000 gallons)
Totalizer .....	0.001 - 4,294,000 m <sup>3</sup> (.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 <sup>st</sup> (upflow) .....	1-95.....	Backwash 1-95
2. Regenerate Draw/Slow Rinse (downflow) .....	1-180	
3. Backwash 2 <sup>nd</sup> (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 m<sup>2</sup> of bed area/10 gpm of backwash per square foot of bed area