

# Clack®



## WS2EE

### **WATER SPECIALIST CONTROL VALVE**



- 2" Top mount control valve suited for commercial/industrial applications
- Lead free brass construction
- Economical stainless steel optional meter assembly
- Service flow rate of 115 gpm, backwash 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/slow rinse, second backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with an 8 hour carry over
- 12-volt output AC Adapter provides safe and easy installation
- Post treated water regenerant refill
- 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
- Patented quiet drain line flow control assembly U.S. Patent 6,776,901



Optional 2" Meter

# Water Specialist 2" EE Control Specifications

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

## CONTROL VALVE FLOW RATES

Service @15 psi drop (includes meter).....	115 gpm
Backwash @ 25 psi drop .....	80 gpm
Cv Service .....	29.7
Cv Backwash .....	16.0

## OPERATING PRESSURES

Minimum/Maximum .....	20 psi – 125 psi
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## OPERATING TEMPERATURES

Minimum/Maximum .....	40° – 110° F
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## METER SPECIFICATIONS

Accuracy .....	± 5%
Flow Rate Range.....	1.5 – 150 gpm
Gallon Range.....	20 – 1,500,000 gallons
Totalizer .....	1 – 9,999,000 gallons

## DIMENSIONS & WEIGHT

Distributor Pilot	
Valve bodies with 2" Female NPT Inlet & Outlet .....	1.90" OD (1.5" NPS)
Drain Line Connection (drain line adapters not included) .....	1.5" Female NPT
Brine Line Adapters Included.....	1" Male NPT elbow, 3/4" x 1" solvent weld elbow and 1/2" OD Poly Tube Compression
Mounting Base.....	4" - 8 UN
Height From Top Of Tank.....	8.5"
Shipping Weight With Meter .....	29 lbs.

## ELECTRICAL SPECIFICATIONS

	AC Adapter	
	U.S.	International
Supply Voltage .....	120V AC .....	230V AC
Supply Frequency .....	60 Hz.....	50Hz
Output Voltage .....	20V AC .....	20V AC
Output Current .....	750 mA.....	750mA

## 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	
4. Fast Rinse (downflow) .....	1-95.....	Rinse 1-95
5. Regenerant Refill (in service with treated water).....	0.1-99.0 or off	
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 @ 10 gpm of backwash per square foot of bed area