

**Clack**<sup>™</sup> 

**WS1.5  
EE**

## **WATER SPECIALIST 1.5" EE CONTROL VALVE**



- **1.5" top mount control valve suited for mid-size commercial/industrial applications**
- **Lead free brass valve body**
- **Economical optional meter**
- **Service flow rate of 60 gpm, backwash 50 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 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 power carry over**
- **12-volt output AC Adapter provides safe and easy installation**
- **Treated water regenerant refill**
- **Reliable and proven DC drive**



Optional 1.5" Meter

# Water Specialist 1.5" EE Control Specifications

Inlet/Outlet (1) .....	1.5" Female NPT
Cycles .....	up to 6
Valve Material .....	Lead free brass
Regeneration .....	Downflow

## CONTROL VALVE FLOW RATES

Service @15 psi drop (includes meter).....	60 gpm
Backwash @ 25 psi drop .....	50 gpm
Cv Service .....	15.5
Cv Backwash .....	10

## 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.....	0.5 – 75 GPM
Gallon Range.....	20 – 1,500,000 gallons
Totalizer .....	1 – 9,999,000 gallons

## DIMENSIONS & WEIGHT

Distributor Pilot	
Valve bodies with 1.5" Female NPT Inlet & Outlet .....	1.90" OD (1.5" NPS)
Drain Line Connection (2) .....	1.25" Female NPT
Adapter Included.....	¾" Male NPT Elbow
Brine Line Connection .....	¾" Female NPT
Adapter Included.....	½" OD Poly Tube Compression
Mounting Base.....	4" - 8 UN
Height From Top Of Tank.....	7.5"
Shipping Weight With Meter .....	21 lbs.

## ELECTRICAL SPECIFICATIONS

### AC Adapter

Supply Voltage .....	120V AC
Supply Frequency .....	60 Hz
Output Voltage .....	12V AC
Output Current .....	500 mA

## TANK APPLICATIONS

Water Softener .....	12" – 24" diameter
Water Filter (3) .....	12" – 30" diameter

## CYCLES OF OPERATION

Cycle	Range of times minutes
1. Backwash 1 <sup>st</sup> (upflow) .....	1 - 20 or off
2. Regenerate Draw/Slow Rinse (downflow) .....	1 - 99 or off
3. Backwash 2 <sup>nd</sup> (upflow).....	1 - 20 or off
4. Fast Rinse (downflow) .....	1 - 20 or off
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. Casting comes with a 1.25" Female NPT drain connection. An adapter is provided to accept existing WS1 drain line ¾" Male NPT flow controls up to 10 gpm. Other drain line flow controls are available for flow rates above 10 gpm.

3. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area