

# Clack Corporation

**WS1.5**  
**EI**

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



shown with optional meter and 1" straight fitting

- **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 227 lpm, backwash 189 lpm**
- **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**
- **12-volt output AC Adapter provides safe and easy installation**
- **Treated water regenerant refill**
- **24 hour clock**
- **Reliable and proven DC drive**

# Water Specialist 1.5" EI Control Specifications

Inlet/Outlet (1) ..... 1.5" FPT  
 Cycles ..... up to 6  
 Valve Material ..... Lead free brass  
 Regeneration ..... downflow

## FLOW RATES

Service @15 psi/1 bar drop (includes meter) ..... 60 gpm (227 lpm)  
 Backwash @ 25 psi/1.7 bar drop ..... 50 gpm (189 lpm)

## OPERATING PRESSURES

Minimum/Maximum ..... 20 - 125 psi (1.4 - 8.6 bar)

## OPERATING TEMPERATURES

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

## METER

Accuracy ..... ± 5%  
 Flow Rate Range ..... 0.5 - 60 GPM (2 - 227 lpm)  
 Volume Range ..... 1.000 to 500.0 m<sup>3</sup>  
 Totalizer ..... 0.001 - 9,999,000 m<sup>3</sup>

## DIMENSIONS & WEIGHT

Distributor Pilot  
 Valve bodies with female 1.5" NPT Inlet & Outlet ..... 1.90" OD (1.5" NPS)  
 Valve bodies with female 1.5" BSPT Inlet & Outlet ..... 50 mm OD  
 Drain Line (2) ..... 1.25" FPT  
 Brine Line ..... ¾" FPT  
 Adapters Available ..... ½" OD Poly Tube  
 Mounting Base ..... 4" - 8 UN  
 Height From Top Of Tank ..... 7.5" (191 mm)  
 Shipping Weight With Meter ..... 21 lbs. (9.5 kg)

## ELECTRICAL SPECIFICATIONS

### AC Adapter

	<u>U.S.</u>	<u>International</u>
Supply Voltage .....	120V AC.....	230V AC
Supply Frequency .....	60 Hz.....	50 Hz
Output Voltage .....	12V AC.....	12V AC
Output Current .....	500 mA.....	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 - 99.9 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" FPT drain connection. An adapter is provided to accept existing WS1 drain line flow controls up to 25 gpm.
3. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area/407 lpm per m<sup>2</sup> of bed area