

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

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



Optional 1.5" Meter

- **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
<b>FLOW RATES</b>	
Service @15 psi/1 bar drop (includes meter) .....	60 gpm (227 lpm)
Backwash @ 25 psi/1.7 bar drop .....	50 gpm (189 lpm)
<b>OPERATING PRESSURES</b>	
Minimum/Maximum .....	20 - 125 psi (1.4 - 8.6 bar)
<b>OPERATING TEMPERATURES</b>	
Minimum/Maximum .....	40° - 110° F (4° - 43° C)
<b>METER</b>	
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>
<b>DIMENSIONS &amp; WEIGHT</b>	
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)
<b>ELECTRICAL SPECIFICATIONS</b>	
	<b>AC Adapter</b>
	<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
<b>TANK APPLICATIONS</b>	
Water Softener .....	12" - 24" Diameter
Water Filter (3) .....	12" - 30" Diameter
<b>CYCLES OF OPERATION</b>	
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