

**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

## 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)
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## OPERATING TEMPERATURES

Minimum/Maximum .....	40 <sup>o</sup> - 110 <sup>o</sup> F (4 <sup>o</sup> - 43 <sup>o</sup> C)
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## 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