

Clack™ 

**WS1.5
EE**

WATER SPECIALIST 1.5" EE 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 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**

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
OPERATING TEMPERATURES	
Minimum/Maximum	40° – 110° F
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 st (upflow)	1 - 20 or off
2. Regenerate Draw/Slow Rinse (downflow)	1 - 99 or off
3. Backwash 2 nd (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