

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 stainless steel optional meter assembly**
- **Service flow rate of 65 gpm, backwash 55 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 cycle times with 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 carry over**
- **12-volt output AC Adapter provides safe and easy installation**
- **Post 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).....	65 gpm
Backwash @ 25 psi drop	55 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" – 30" diameter (4)
Water Filter (3).....	12" – 30" diameter

CYCLES OF OPERATION

Cycle	Softener	Filter
	Range of time in minutes	
1. Backwash 1 st (upflow)	1-20.....	Backwash 1-95
2. Regenerate Draw/Slow Rinse (downflow)	1-180	
3. Backwash 2 nd (upflow).....	1-20.....	Rinse 1-95
4. Fast Rinse (downflow)	1-95	
5. Regenerant Refill (in service with treated water).....	0.1-99.0	
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
4. Requires ¾" hard pipe brine line and the use of the 454 SBV and/or 1" air check for draw rates