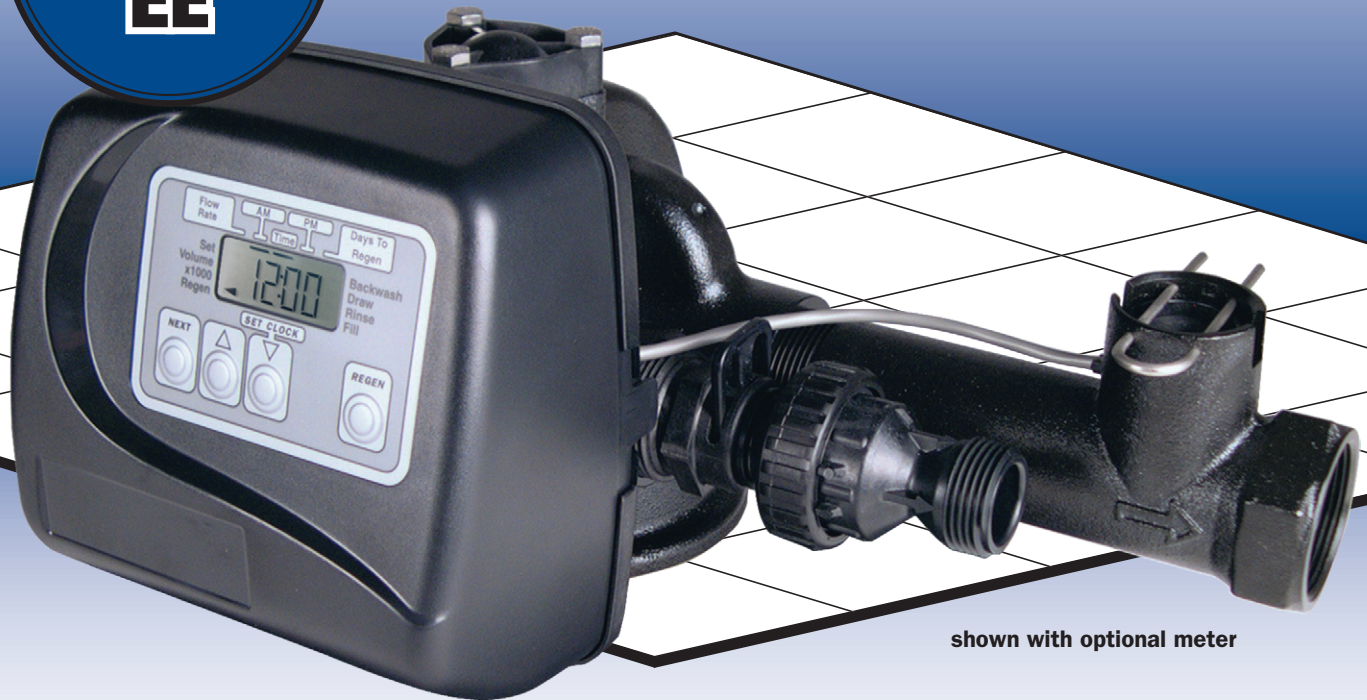


Clack Corporation 

WS1.5
EE

Water Specialist **1.5" EE Control Valve**



shown with optional meter

- **1½" 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**
- **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" FPT
Cycles	up to 6
Valve Material	Lead free brass
Regeneration	downflow

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
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OPERATING TEMPERATURES

Minimum/Maximum	40° – 110° F
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METER

Accuracy	± 5%
Flow Rate Range.....	0.5 – 60 GPM
Gallon Range.....	500 – 250,000 gallons
Totalizer	1 – 9,999,000 gallons

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.....	50mm OD
Drain Line (2)	1.25" FPT
Brine Line	¾" FPT
Adapters Available	½" or ⅝" OD Poly Tube
Mounting Base.....	4" - 8 NPSM
Height From Top Of Tank.....	7.5"
Shipping Weight With Meter	21 lbs.

ELECTRICAL SPECIFICATIONS

	AC Adapter	
	U.S.	International
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 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 - 99.9 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