

Clack®

WS1.5EE

**WATER
SPECIALIST
CONTROL
VALVE**



Certified to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372.

- 1.5" top mount control valve suited for mid-size commercial/industrial applications
- Epoxy coated lead free brass valve body*
- Economical stainless steel optional meter assembly
- Service flow rate of 70 gpm, backwash 52 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 or upflow brining, slow rinse, second backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with a 8 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refill
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation
- Reliable and proven DC drive



Optional 1.5" Meter

Water Specialist 1.5" EE Control Specifications

| | | |
|---|-----------------------------|----------------------|
| Inlet/Outlet (1) | 1.5" Female NPT | |
| Cycles | Up to 6 | |
| Valve Material | Epoxy coated brass | |
| Regeneration | Downflow | |
| CONTROL VALVE FLOW RATES | | |
| Service @15 psi drop (includes meter)..... | 70 gpm | |
| Backwash @ 25 psi drop | 52 gpm | |
| Cv Service | 18.1 | |
| Cv Backwash | 10.4 | |
| 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 | | |
| POWER SUPPLY | | |
| | <u>U.S.</u> | <u>International</u> |
| Supply Voltage | 100VAC to 120VAC | 200VAC to 240VAC |
| Supply Frequency | 50/60 Hz..... | 50/60 Hz |
| Output Voltage | 15VDC..... | 15VDC |
| Output Current | 500 mA..... | 500 mA |
| TANK APPLICATIONS | | |
| Water Softener | 12" – 24" diameter | |
| Water Filter (3)..... | 12" – 30" diameter | |
| CYCLES OF OPERATION | | |
| Cycle | <u>Softener</u> | <u>Filter</u> |
| | Range of time in minutes | |
| 1. Backwash 1 st (upflow) | 1-95..... | Backwash 1-95 |
| 2. Regenerate Draw/Slow Rinse (downflow) | 1-180 | |
| 3. Backwash 2 nd (upflow)..... | 1-95 | |
| 4. Fast Rinse (downflow) | 1-95..... | Rinse 1-95 |
| 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.