

# Clack®

# WS1.5PBEI

## **WATER SPECIALIST CONTROL VALVE**



**PENDING**

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

**shown with optional 1.5" bypass**

- **1.5" top mount control valve suited for mid-size commercial/industrial applications**
- **Glass filled composite**
- **Economical glass filled composite optional meter assembly**
- **Service flow rate of 182 lpm (10.9 m<sup>3</sup>/h) (48 gpm), backwash 163 lpm (9.8 m<sup>3</sup>/h) (43 gpm)**
- **Solid state microprocessor with easy access front panel settings**
- **Upflow/downflow brining field convertible**
- **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 backup for time of day up to 8 hours**
- **Level VI 15-volt output DC power supply provides safe and easy installation**
- **Post treated water regenerant refill**
- **24 hour clock**
- **Days override feature; 1 – 28 days available**
- **One piece expanding seal spacer stack assembly**
- **Linearly reciprocating piston operation**
- **Reliable and proven DC drive**

# Water Specialist 1.5PBEI Glass Filled Composite Control Specifications

|                        |                        |
|------------------------|------------------------|
| Inlet/Outlet (1) ..... | 1.5" Male BSPT or NPT  |
| Cycles .....           | Up to 6                |
| Valve Material .....   | Glass filled composite |
| Regeneration .....     | Downflow / Upflow      |

## CONTROL VALVE FLOW RATES

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Service @ 1 bar/15 psi drop (includes meter) ..... | 182 lpm (10.9 m <sup>3</sup> /h) (48 gpm) |
| Backwash @ 1.7/25 psi bar drop .....               | 163 lpm (9.8 m <sup>3</sup> /h) (43 gpm)  |

## OPERATING PRESSURES

|                       |                              |
|-----------------------|------------------------------|
| Minimum/Maximum ..... | 1.4 - 8.6 bar (20 - 125 psi) |
|-----------------------|------------------------------|

## OPERATING TEMPERATURES

|                       |                           |
|-----------------------|---------------------------|
| Minimum/Maximum ..... | 4° - 43° C (40° - 110° F) |
|-----------------------|---------------------------|

## DIMENSIONS & WEIGHT

|                                                         |                             |
|---------------------------------------------------------|-----------------------------|
| Distributor Pilot                                       |                             |
| Valve bodies with 1.5" Female BSPT Inlet & Outlet ..... | 50 mm OD                    |
| Valve bodies with 1.5" Female NPT Inlet & Outlet .....  | 1.90" OD (1.5" NPS)         |
| Drain Line Connection .....                             | 1" Male BSPT Elbow          |
| Brine Line Connection .....                             | ½" OD Poly Tube Compression |
| Mounting Base .....                                     | 4" - 8 UN                   |
| Height From Top Of Tank .....                           | 273.05 mm (10.75")          |
| Shipping Weight .....                                   | 4.1 kg (9 lb)               |

## 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 (2) ..... | 12" - 24" Diameter |

## CYCLES OF OPERATION

|                                                            | <u>Softener</u>          | <u>Filter</u> |
|------------------------------------------------------------|--------------------------|---------------|
| Cycle                                                      | Range of time in minutes |               |
| 1. Backwash 1 <sup>st</sup> (upflow) .....                 | 1-95 .....               | Backwash 1-95 |
| 2. Regenerate Draw/Slow Rinse (downflow) .....             | 1-180                    |               |
| 3. Backwash 2 <sup>nd</sup> (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. Filter tank size calculated @ 407 lpm per m<sup>2</sup> of bed area/10 gpm of backwash per square foot of bed area.