

# Clack®



## WS1.5CI

## TWIN ALTERNATING CONTROL VALVE

### WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI/CAN 61 and 372.

Interconnect fittings and piping not supplied.

- Service flow 204 lpm, (12.3m<sup>3</sup>/h), (54 gpm), backwash flow 83 lpm, (4.9 m<sup>3</sup>/h), (22 gpm), with built in meter on side port of valve body and fitting kit installed
- Solid state microprocessor with easy access front panel settings
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Fully programmable regeneration cycle sequence (maximum 9)
- Programmable regeneration cycle times
- Days override feature; 1 - 28 days available
- Backwash and brining ability for Softeners to 24" diameter tanks, backwash filters to 18"
- Downflow/upflow regeneration
- Stores system configuration and operation data in nonvolatile memory
- Coin Cell Lithium battery back-up with an 24 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Soft/treated water regeneration
- Pre or post soft/treated water regenerant refill
- 24-hour clock
- Reliable and proven DC drives
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation

# Water Specialist 1.5" CI Twin Alternating Specifications

|                            |                                          |
|----------------------------|------------------------------------------|
| Inlet/Outlet Fittings..... | 1.5" QC fitting optional straight or 90° |
| Cycles .....               | up to 9                                  |
| Valve Material .....       | Glass Filled Composite                   |
| Regeneration .....         | Downflow/Upflow                          |

## FLOW RATES

|                                                                |                            |
|----------------------------------------------------------------|----------------------------|
| Service @ 15 psi/1bar drop (includes adapters and meter) ..... | 204 lpm, 12.3 m³/h, 54 gpm |
| Backwash @ 25 psi/1.7 bar drop (includes bypass) .....         | 83 lpm, 4.9 m³/h, 22 gpm   |
| Cv Service .....                                               | 13.9                       |
| Cv Backwash .....                                              | 4.4                        |

## OPERATING PRESSURES

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

## OPERATING TEMPERATURES

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

## METER

|                      |                  |
|----------------------|------------------|
| Accuracy .....       | ± 5%             |
| Flow Rate Range..... | 0.95 - 216 lpm   |
| Volume Range .....   | 0.02 - 5,700 m³  |
| Totalizer .....      | 1 m³ - 99,999 m³ |

## DIMENSIONS & WEIGHT

|                               |                             |
|-------------------------------|-----------------------------|
| Distributor Pilot .....       | 50mm or 1.90" OD (1.5" NPS) |
| Drain Line .....              | 1" Male Elbow BSPT or NPT   |
| Brine Line .....              | ½" OD Poly Tube Compression |
| Mounting Base.....            | 4" - 8 UN Thread            |
| Height From Top of Tank ..... | 11" (279.4mm)               |
| Weight .....                  | 8.16 kg                     |

## ELECTRICAL SPECIFICATIONS

### POWER SUPPLY

|                        | <u>U.S.</u>            | <u>International</u> |
|------------------------|------------------------|----------------------|
| Supply Voltage .....   | 100VAC to 240VAC ..... | 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 (1) ..... | 12" - 18" diameter |

## CYCLES OF OPERATION

Choose up to nine regeneration cycles, in any order, with a wide range of available values:

| Cycle .....                   | Range of values |
|-------------------------------|-----------------|
| Backwash .....                | 1 - 120 minutes |
| Rinse .....                   | 1 - 120 minutes |
| Pause (service) .....         | 1 - 480 minutes |
| Brine (co-current) .....      | 1 - 180 minutes |
| Brine (counter-current) ..... | 1 - 180 minutes |
| Refill (softener) .....       | 0.05 - 90 kg    |
| Refill .....                  | 0.2 - 76 Liters |

*Options: Backwash Filter, Weather Cover*

Compatible with the following typical concentration of regenerants or chemicals: Sodium chloride, potassium chloride, chlorine and chloramines

1. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area