

Clack® 

WS1CI TWIN ALTERNATING CONTROL VALVE

WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI/CAN 61, NSF/ANSI 44 and 372.

- Service flow 106 lpm (6.36 m³/h) (28 gpm), backwash flow 57 lpm (3.40 m³/h) (15 gpm) with meter and bypass 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 to 21" diameter tanks
- Downflow/upflow regeneration
- Stores system configuration and operation data in nonvolatile memory
- Coin Cell Lithium battery back-up with a 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
- Low salt alarm
- 24-hour clock
- Reliable and proven DC drive
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation


**Made In
the U.S.A.**

Water Specialist 1" CI Twin Alternating Specifications

| | |
|----------------------------|----------------------------|
| Inlet/Outlet Fittings..... | ¾" to 1.5" NPS |
| Cycles | up to 9 |
| Valve Material | Fiber Reinforced Composite |
| Regeneration | Downflow/Upflow |

FLOW RATES

| | |
|--|---|
| Service @ 15 psi/1 bar drop (includes bypass and meter)..... | 106 lpm (6.36 m ³ /h) (28 gpm) |
| Backwash @ 25 psi/1.7 bar drop (includes bypass)..... | 57 lpm (3.40 m ³ /h) (15 gpm) |
| Cv Service | 7.28 |
| Cv Backwash | 2.96 |

OPERATING PRESSURES

| | |
|-----------------------|------------------------------|
| Minimum/Maximum | 20 - 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 - 102 lpm |
| Volume Range | 0.02 - 5,700 m ³ |
| Totalizer | 1 m ³ - 99,999 m ³ |

DIMENSIONS & WEIGHT

| | |
|------------------------------|-----------------------------------|
| Distributor Pilot | 1.050" OD Pipe (¾" NPS) |
| Drain Line | ¾" or 1" NPT |
| Brine Line | ¾" or ½" OD Poly Tube Compression |
| Mounting Base | 2 ½" - 8 NPSM |
| Height From Top Of Tank..... | 7 ¾" (187 mm) |
| Weight | 16 lbs (7.25 kg) |

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 | 6" - 21" Diameter |
| Water Filter (1) | 6" - 21" 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 - 90.00 Kg |
| Refill (filter) | 0.2 - 76.00 Liters |

Options: Backwash Filter, Bypass, Weather Cover

Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

1. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area/407 lpm per square meter of bed area