WS1Cl

WATER
SPECIALIST
CONTROL
VALVE

- 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
- 12-volt output AC Adapter provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Pres or Post treated water regenerant refill
- Mixing valve option available
- Low salt alarm
- 24-hour clock
- Patented one piece expanding seal spacer stack assembly U.S. Patent 6,402,944
- Patented linearly reciprocating piston operation U.S. Patent 6,444,127
- Reliable and proven DC drive

Certified to NSF/ANSI 44, 61 and 372.
Water Specialist 1” CI Control Specifications

Inlet/Outlet Fittings: ¾” to 1.5” NPS
Cycles: up to 9
Valve Material: Noryl (1) or equivalent
Regeneration: downflow/upflow

FLOW RATES
Service @ 15 psi/1 bar drop (includes bypass and meter): 102 lpm (6.12 m³/h) (27 gpm)
Backwash @ 25 psi/1.7 bar drop (includes bypass): 102 lpm (6.12 m³/h) (27 gpm)

OPERATING PRESSURES
Minimum/Maximum: 20 - 125 psi (1.4 - 8.6 bar)

OPERATING TEMPERATURES
Minimum/Maximum: 40º - 110º F (4º – 43º C)

METER
Accuracy: ± 5%
Flow Rate Range: 0.95 - 102 lpm
Volume Range: 0.02 - 5,700 m³
Totalizer: 1 m³ - 99,999 m³

DIMENSIONS & WEIGHT
Distributor Pilot: 1.050” OD Pipe (¾” NPS)
Drain Line: ¾” or 1” NPT
Brine Line: 3/8” or ½” OD Poly Tube
Mounting Base: 2 ½” - 8 NPSM
Height From Top Of Tank: 7 ⅞” (187 mm)
Weight: 4.5 lbs (2 kg)

ELECTRICAL SPECIFICATIONS
AC Adapter
<table>
<thead>
<tr>
<th>U.S.</th>
<th>International</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage: 120V AC</td>
<td>230V AC</td>
</tr>
<tr>
<td>Supply Frequency: 60 Hz</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Output Voltage: 12V AC</td>
<td>12V AC</td>
</tr>
<tr>
<td>Output Current: 500 mA</td>
<td>500 mA</td>
</tr>
</tbody>
</table>

TANK APPLICATIONS
Water Softener: 6” - 21” Diameter
Water Filter (2): 6” - 21” Diameter

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

<table>
<thead>
<tr>
<th>Cycle</th>
<th>Range of values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backwash</td>
<td>1 - 120 minutes</td>
</tr>
<tr>
<td>Rinse</td>
<td>1 - 120 minutes</td>
</tr>
<tr>
<td>Pause (service)</td>
<td>1 - 480 minutes</td>
</tr>
<tr>
<td>Brine (co-current)</td>
<td>1 - 180 minutes</td>
</tr>
<tr>
<td>Brine (counter-current)</td>
<td>1 - 180 minutes</td>
</tr>
<tr>
<td>Refill (softener)</td>
<td>0.05 - 95.00 Kg</td>
</tr>
<tr>
<td>Refill (filter)</td>
<td>0.05 - 95.00 Liters</td>
</tr>
</tbody>
</table>

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. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area