WS1.5CI

WATER SPECIALIST CONTROL VALVE

Certified to NSF/ANSI 61 and 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 265 lpm (15.9 m3/h) (70 gpm), backwash 197 lpm (11.8 m3/h) (52 gpm)
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining and current flow rate
- Four methods to initiate the downflow 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
- Level VI 15-volt output DC power supply provides safe and easy installation
- Pre or Post treated water regenerant refill
- Low salt alarm
- 24 hour clock
- Coin Cell Lithium battery back-up with a 24 hour carry over
- 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
# Water Specialist 1.5” CI Control Specifications

Inlet/Outlet (1) ................................................................. 1.5” Female BSPT or NPT
Cycles ................................................................. up to 9
Valve Material ...................................................... Lead free brass
Regeneration ................................................. Downflow

## CONTROL VALVE FLOW RATES
- Service @ 1 bar/15 psi drop (includes meter) .......... 265 lpm (15.9 m³/h) (70 gpm)
- Backwash @ 1.7 bar/25 psi drop .................. 197 lpm (11.8 m³/h) (52 gpm)

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

## OPERATING TEMPERATURES
Minimum/Maximum .............................................. 4º - 43º C (40º - 110º F)

## METER SPECIFICATIONS
- Accuracy ................................................................. ± 5%
- Flow Rate Range ...................................................... 2 - 284 lpm (0.5 - 75 gpm)
- Volume Range ........................................................ 0.02 - 5,700 m³
- Totalizer ................................................................. 1 – 99,999 m³

## DIMENSIONS & WEIGHT
- (264 - 26,417,000 gallons)

## ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>POWER SUPPLY</th>
<th>U.S.</th>
<th>International</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>100VAC to 120VAC</td>
<td>200VAC to 240VAC</td>
</tr>
<tr>
<td>Supply Frequency</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>15VDC</td>
<td>15VDC</td>
</tr>
<tr>
<td>Output Current</td>
<td>500 mA</td>
<td>500 mA</td>
</tr>
</tbody>
</table>

## TANK APPLICATIONS
- Water Softener ............................................. 12” - 30” Diameter (4)
- Water Filter (3) ............................................. 12” - 30” 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
- Refill (softener) ............................................. 0.05 - 90.00 Kg / .1 - 99 minutes
- Refill (filter) .................................................. 0.2 - 76.00 Liters

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 38 lpm (10 gpm). Other drain line flow controls are available for flow rates above 38 lpm (10 gpm).
3. Filter tank size calculated @ 407 lpm per m² of bed area/10 gpm of backwash per square foot of bed area
4. Requires a V3158-02 installed for a brine elbow on the control valve, use of a 454 controlled flow brine valve assembly H7070-36CF-5 or H7070-54CF-5 (designed with 5 gpm BLFC), 1” air check, or 494 brine valve assembly, and minimum ¾” hard pipe PVC brine line.

U.S. Patents: 6,402,944 • 6,444,127

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