• Solid state microprocessor with easy access front panel settings
• Three modes of operation; meter immediate, meter delayed, or time clock delayed
• Double backwash feature offers optimum regeneration, cleaning ability, and efficiency
• Capable of 36 pre-programmed regeneration cycles based on control valve setting
• 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 an 8 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
• Pre or Post treated water regenerant refill
• Reliable and proven DC drive
• One piece expanding seal spacer stack assembly
• Linearly reciprocating piston operation
**Water Specialist 1” Control Specifications**

**Inlet/Outlet Fittings** .................................................. ¾” to 1.5” NPS

**Cycles** ................................................................. up to 6

**Valve Material** ........................................................ Fiber Reinforced Composite

**Regeneration** ........................................................ Downflow/Upflow

### FLOW RATES
- Service @ 15 psi drop (includes bypass and meter) .......... 27 gpm
- Backwash @ 25 psi drop (includes bypass) .......... 27 gpm
- Cv Service .......................................................... 7.0
- Cv Backwash ....................................................... 5.4

### OPERATING PRESSURES
- Minimum/Maximum .................................................. 20 psi – 125 psi

### OPERATING TEMPERATURES
- Minimum/Maximum .................................................. 40º – 110º F

### METER
- Accuracy ................................................................. ± 5%
- Flow Rate Range .................................................. 0.25 – 27 gpm
- Gallon Range ........................................................ 20 – 50,000 gallons
- Totalizer ............................................................... 1000 - 9,999,000 gallons

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

### ELECTRICAL SPECIFICATIONS

#### POWER SUPPLY
- **U.S.**
  - Supply Voltage ................................................ 100VAC to 120VAC
  - Supply Frequency ........................................... 50/60 Hz
  - Output Voltage ............................................... 15VDC
  - Output Current ............................................... 500 mA

- **International**
  - Supply Voltage ................................................ 200VAC to 240VAC
  - Supply Frequency ........................................... 50/60 Hz
  - Output Voltage ............................................... 15VDC
  - Output Current ............................................... 500 mA

### TANK APPLICATIONS
- Water Softener .................................................... 6” – 21” diameter
- Water Filter (1) ...................................................... 6” – 21” diameter

### CYCLES OF OPERATION (Softener Downflow)

<table>
<thead>
<tr>
<th>Cycle</th>
<th>Range of times minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Backwash 1st (upflow)</td>
<td>6 - 12</td>
</tr>
<tr>
<td>2. Regenerate Draw/Slow Rinse (downflow)</td>
<td>45 - 75</td>
</tr>
<tr>
<td>3. Backwash 2nd (upflow)</td>
<td>3 - 12</td>
</tr>
<tr>
<td>4. Fast Rinse (downflow)</td>
<td>3 - 8</td>
</tr>
<tr>
<td>5. Regenerant Refill (in service with treated water)</td>
<td>As Programmed</td>
</tr>
<tr>
<td>6. Service (downflow)</td>
<td></td>
</tr>
</tbody>
</table>

**Options:** Backwash Filter, Bypass, Weather Cover

Compatible with the following typical concentration 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