With “WS” Series Control Valves

**Standard Features**
- High Flow Control Valves thru 2” – Service Flow Rates over 250 gpm.
- Up to 1.2 Million Grain Tank Capacity per Tank
- Maximum Operating Pressure – 125 psi/110º F
- Clack™ Control Valves
- Electronic Meter Regeneration - Immediate; Only One at a Time, Allowing Treated Water 24 x 7.
- Metered Interlocked with all Tanks in Parallel Service
- Premium Cation Resin – 30K grains/cu.ft.
- No Hard Water Bypass
- Brine Tank – HDPE material, Salt Grid Plate or Gravel Underbed, Safety Brine Valve (30” & smaller diameter), Air Check and Overflow Options
- Steel and ASME Rated Pressure Vessels
- Side-mount Control Valves
- High Capacity Resin
- 2900, 3900 Control Valves

**Options**

**Typical Use:**
- Boiler Feed
- Hospitals
- Schools and Universities
- Industrial Pre-treatment
- Hotels/Motels
- Apartments/Condos
- Nursing Home/ Assisted Living
- Laundry Facilities
- Food Service
- Corporate Park
- Large Farms

**Automatically reduce hardness (calcium/magnesium) and dissolved iron/ manganese along with their unpleasant side-effects. Only the highest quality resin, controls and materials are used in WaterSoft Water Softeners. Our motor-driven piston control valve is the most reliable under even severe water conditions and resists common adversaries such as hardness and iron. Meanwhile, our hub and lateral style or Vortech™ distribution system within the corrosion resistant tanks maximize flow while reducing pressure loss through the units. Designed for use in commercial, industrial or domestic water applications.**

As we remain **Committed to Innovation,** WaterSoft provides the design and engineering support to ensure the most effective treatment solution for each installation. For a stand-alone installation or a new construction project, replace or integrate new equipment into an existing process, we have the proper system options available to meet your needs.

**Operating Information**

For use on Potable Water Only
Do not use on microbiologically unsafe or unknown quality water
Installation must comply with state and local plumbing/electrical codes
Tank warranty void if subject to vacuum
To prevent channeling, use on jobs where minimum flow is at least 1 gpm/cu.ft. resin total in all tanks.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Temperature Range</td>
<td>35º – 110°F</td>
</tr>
<tr>
<td>Ambient Air Temperature Range</td>
<td>35º – 120°F</td>
</tr>
<tr>
<td>Operating Pressure Range</td>
<td>20 – 125 psi</td>
</tr>
<tr>
<td>Electronic Requirements</td>
<td>110v/60Hz</td>
</tr>
<tr>
<td>Influent Turbidity</td>
<td>5 NTU</td>
</tr>
<tr>
<td>Influent Chlorine</td>
<td>1 ppm max.</td>
</tr>
<tr>
<td>Iron/Manganese</td>
<td>&lt; 5 ppm</td>
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</tbody>
</table>

WaterSoft Inc.
710 Orange Street, Ashland, OH 44805
Toll Free: 1-800-462-3790  Phone: 419-289-1500  Fax: 419-289-1515  www.watersoftinc.com

12/9/14
### Product Specifications

**Metered Interlocked No Hard Water ByPass (NHWBP) Systems**

- Operates with all tanks in service (unless one is regeneration). Immediate regeneration - Interlock allows only one tank to regenerate at a time.

#### Model Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>GPM FLOW RATES*</th>
<th>PIPE SIZE</th>
<th>GRAINS EXCH CAP @ LBS SALT (PER RESIN TANK)</th>
<th>RESIN TANK</th>
<th>BRINE TANK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SERVICE</td>
<td>PEAK</td>
<td>SERVICE</td>
<td>Drain</td>
<td>MAXIMUM</td>
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<tr>
<td>CMS90-120WSLN</td>
<td>34</td>
<td>24</td>
<td>48</td>
<td>4.2</td>
<td>1&quot;</td>
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<tr>
<td>CMS90-123WSLN</td>
<td>48</td>
<td>36</td>
<td>66</td>
<td>4.2</td>
<td>1-1/4&quot;</td>
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<tr>
<td>CMS90-104WSLN</td>
<td>50</td>
<td>36</td>
<td>68</td>
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<td>1-1/4&quot;</td>
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<tr>
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<td>74</td>
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<td>1&quot;</td>
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<tr>
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<td>40</td>
<td>70</td>
<td>7.5</td>
<td>1-1/4&quot;</td>
</tr>
</tbody>
</table>

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**Flow rates shown are min. possible at all times (they’re assuming one tank is off-line for regeneration).**

**Commitment to Innovation**

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