Chemical and water mixing for treatment of:

- Rapid oxidation of iron, manganese and hydrogen sulfide
- pH and corrosion control
- Tannin removal
- Blending polymers and flocculants
- Disinfection
- Reverse osmosis pre- and post-treatment
- Boilers and cooling towers
- Waste water treatment
- Pools, spas and fountains
- Car washes. Soap mixing
- Agriculture. Mixing fertilizers and chemicals
- Mass transfer improvement of ozone and air injection
- Destruction of polyphosphates
- Any chemical feed application

Each unit is compact for easy installation and constructed of durable PVC for long life. Some models include an injection port for easier installation. In most cases, costly retention tanks are eliminated. However, the Magnum will ensure an effective application if one is used. Not only is the Magnum economical, it helps to reduce cost of supplemental equipment, normally required.

*Installed in thousands of homes and businesses since 1989*
Magnum Accelerator™
In-line, motionless chemical mixer

**Results using a static mixer**
Magnum Accelerators are designed for household and commercial chemical feed applications producing maximum effect. They are easy to install and will help save time, money, and space.

Because different chemicals can have different densities compared to water, it is possible for the two not to completely mix. Even with retention tanks, they can separate from the water to some degree.

Under the same water flow velocity using a static mixer, the chemical will completely and rapidly mix with the water stream as illustrated in these pictures. As a result, a contact tank may not be required.

Dissolving gases is another benefit to using a static mixer. This can be used to maximize the effect of dissolving ozone or air, even with an injector. Splitting the gas bubbles multiple times increases the surface area and allows more gas to dissolve.

**Special Applications:**
- Special materials are available for applications with higher temps, aggressive chemicals, high pressures, etc.
- Multiple injection ports are available on some smaller and all larger mixers for simultaneous multiple chemical feeds.
- Larger sizes available for higher flow rates. We are capable of providing mixers for applications up to 12” in diameter.
- Custom lengths in even the tightest space can be configured on larger units, as well as different ends such as flanged for ease of installation.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>FLOW RATE(GPM)</th>
<th>IN/OUT SIZE</th>
<th>MAX TEMP/PRESS</th>
<th>INJECTION PORT</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES-MA-1</td>
<td>2 – 20 GPM</td>
<td>¾” FPT</td>
<td>110°F/100 PSI</td>
<td>½”</td>
<td>2” x 12 1/2”</td>
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<tr>
<td>ES-MA-4</td>
<td>3 – 25 GPM</td>
<td>1” FPT</td>
<td>110°F/100 PSI</td>
<td>½”</td>
<td>2” x 12 1/2”</td>
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<tr>
<td>ES-MA-6</td>
<td>5 – 30 GPM</td>
<td>1¼” Slip</td>
<td>110°F/100 PSI</td>
<td>N/A</td>
<td>2” x 11”</td>
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<tr>
<td>ES-MA-7</td>
<td>20 – 85 GPM</td>
<td>2” Unions</td>
<td>110°F/100 PSI</td>
<td>N/A</td>
<td>4 1/8”X 14”</td>
</tr>
</tbody>
</table>

ENGINEERING SPECIALTIES
245 William Street
Bensenville, IL 60106
Info (630)640-6827
Fax (630)616-3810
problemwaterfixed@gmail.com
http://www.engineeringspecialties.info

Without a mixer
With a mixer
Dissolving gases