The following table shows the velocity that water travels in feet per second (ft/sec.) in various pipe sizes at different GPM rates.

Assuming the sensor is properly plumbed, the Fire Research paddlewheel flow sensor will deliver its most accurate readings when the velocity of the water being measured is greater than 1.5 ft/sec. and less than 60 ft/sec. The table is filled only with those values that reflect good accuracy so you get a very nice visual picture of the Fire Research paddlewheel's accuracy range.

Example: In a 1½” pipe, the FRC paddlewheel sensor will give very accurate readings for flows between 10 and 400 GPM +/- 3gpm or +/- 1% of reading whichever is greater.

<table>
<thead>
<tr>
<th>FLOW RATE</th>
<th>VELOCITY (FT/SEC.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPM</td>
<td>GPM</td>
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<tr>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
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<td>4</td>
</tr>
<tr>
<td>19</td>
<td>5</td>
</tr>
<tr>
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<td>10</td>
</tr>
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<td>20</td>
</tr>
<tr>
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</tr>
<tr>
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<td>70</td>
</tr>
<tr>
<td>379</td>
<td>100</td>
</tr>
<tr>
<td>757</td>
<td>200</td>
</tr>
<tr>
<td>1136</td>
<td>300</td>
</tr>
<tr>
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<td>400</td>
</tr>
<tr>
<td>1893</td>
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</tr>
<tr>
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<td>1300</td>
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<td>8000</td>
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<tr>
<td>37850</td>
<td>10000</td>
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</table>

<table>
<thead>
<tr>
<th>FLOW VS VELOCITY CHART</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE RESEARCH CORPORATION</td>
</tr>
<tr>
<td>26 Southern Blvd., Nesconset, NY11767</td>
</tr>
<tr>
<td>TEL (516) 724-8888 FAX (516) 360-9727 TOLL FREE 1-800-645-0074</td>
</tr>
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