## KENCO INJECTORS

Models KINJ, KINJM AND KRINJ

### MAXIMUM ALLOWED PIPELINE FLOW RATE IN GALLONS PER MINUTE

**NOTE 4**

**CPVC INJECTORS**

**FOR GASES ONLY**

<table>
<thead>
<tr>
<th>NOMINAL PROCESS PIPE DIAMETER, STD. WEIGHT</th>
<th>1/2</th>
<th>3/4</th>
<th>1</th>
<th>1 1/4</th>
<th>1 1/2</th>
<th>2</th>
<th>2 1/2</th>
<th>3</th>
<th>3 1/2</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>24</th>
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<tbody>
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<td>51,235</td>
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<td>33</td>
<td>53</td>
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<td>454</td>
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<td>1,775</td>
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<td>10,375</td>
<td>12,918</td>
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<tr>
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<tr>
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<tr>
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<td>206</td>
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<td>3,814</td>
<td>4,982</td>
<td>6,978</td>
<td>8,866</td>
<td></td>
</tr>
</tbody>
</table>

**HOW TO READ THE TABLE:**

1. Locate the pipe diameter that the injector will be installed into along the top row.
2. Locate the desired insertion length along the left side column.
3. Locate the box where the pipe diameter and the insertion length intersect.
4. The number in the box is the maximum flow rate past the injector tip in the pipeline in gallons per minute for which an injector with that insertion length will not suffer structural damage.

**EXAMPLE:**

If you wish to install an injector with a 4" insertion length into a 2" nominal diameter pipe, the flow rate cannot exceed 206 gallons per min.

Reference: Calculations used to formulate this chart are based on "Stress Analysis of Thermowells", J.E. Brock, Naval Postgraduate School, Monterey, 1974

ASME PTC 19.3 - 1974 Temperature Measurement

GPM VELOCITY.xls

6/23/2008
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Models KINJ, KINJM AND KRINJ

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**For Gases Only**

<table>
<thead>
<tr>
<th>NOMINAL PROCESS PIPE DIAMETER, .375&quot; WALL THICKNESS</th>
<th>KENCO INJECTORS</th>
<th>CPVC INJECTORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSERTION LENGTH</td>
<td>MAXIMUM ALLOWED PIPELINE FLOW RATE IN GALLONS PER MINUTE</td>
<td>FOR GASES ONLY</td>
</tr>
</tbody>
</table>

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4. The number in the box is the maximum flow rate past the injector tip in the pipeline in gallons per minute for which an injector with that insertion length will not suffer structural damage.

**Example:**

If you wish to install an injector with a 16" insertion length into a 24" nominal diameter pipe, the flow rate cannot exceed 3,097 gallons per min

Reference: Calculations used to formulate this chart are based on "Stress Analysis of Thermowells", J.E. Brock, Naval Postgraduate School, Monterey, 1974

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