**Hollow Cone/Narrow Angle Injector**

**DESIGN FEATURES**
- Narrow spray angles
- High velocity
- Male and female connections
- Flanged connections available
- Available in plastic and metal alloys

**SPRAY CHARACTERISTICS**
- Spray is coarse and extremely hard-driving
- Spray pattern: Hollow Cone
- Spray angles: 15°, 20°, and 30°
- Flow rates: 23.1 to 4660 L/min
  (Special flow rates available)

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**NCJ Flow Rates and Dimensions**

**Hollow Cone, 15°, 20°, and 30° Spray Angles, 3/4" to 6" Pipe Sizes, BSP or NPT**

<table>
<thead>
<tr>
<th>Male or Female Pipe Size</th>
<th>Nozzle Number</th>
<th>K Factor</th>
<th>0.5 bar</th>
<th>0.7 bar</th>
<th>1 bar</th>
<th>1.5 bar</th>
<th>2 bar</th>
<th>3 bar</th>
<th>5 bar</th>
<th>7 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4</td>
<td>NC 0706J</td>
<td>32.0</td>
<td>23.1</td>
<td>27.0</td>
<td>32.0</td>
<td>38.7</td>
<td>44.3</td>
<td>53.6</td>
<td>68.1</td>
<td>79.8</td>
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<tr>
<td>1</td>
<td>NC 1012J</td>
<td>64.0</td>
<td>46.2</td>
<td>54.1</td>
<td>64.0</td>
<td>77.4</td>
<td>88.6</td>
<td>107</td>
<td>136</td>
<td>160</td>
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<tr>
<td>1 1/4</td>
<td>NC 1218J</td>
<td>95.9</td>
<td>69.3</td>
<td>81.1</td>
<td>95.9</td>
<td>116</td>
<td>133</td>
<td>161</td>
<td>204</td>
<td>239</td>
</tr>
<tr>
<td>1 1/2</td>
<td>NC 1526J</td>
<td>139</td>
<td>100</td>
<td>117</td>
<td>139</td>
<td>168</td>
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<td>2</td>
<td>NC 2048J</td>
<td>256</td>
<td>185</td>
<td>216</td>
<td>256</td>
<td>310</td>
<td>354</td>
<td>429</td>
<td>545</td>
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<tr>
<td>2 1/2</td>
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<td>677</td>
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<td>1010</td>
<td>731</td>
<td>856</td>
<td>1010</td>
<td>1230</td>
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<td>1700</td>
<td>2160</td>
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<td>6</td>
<td>NC 60350J</td>
<td>1860</td>
<td>1380</td>
<td>1580</td>
<td>1860</td>
<td>2260</td>
<td>2580</td>
<td>3130</td>
<td>3980</td>
<td>4660</td>
</tr>
</tbody>
</table>

**Approx. Orifice Dia. (mm)**
- A: 82.6, B: 34.9, C: 28.4, D: 82.6
- Wt. (kg): 0.04, 0.34

**Dimensions for Metal Only (mm)**
- A: 10.3, B: 88.9, C: 44.5, D: 88.9
- Wt. (kg): 0.06, 0.45

**Wt. (kg)**
- PVC Metal: 0.11, 0.57

**Flow Rate (L/min) = K (bar)^0.47**

**Standard Materials:** Brass, 316 Stainless Steel, PVC, Polypropylene, and PTFE

**NOTE for PTFE nozzles:** if operating temperature is to exceed 150 °C or the operating pressure is to exceed the values listed in the table above, please contact BETE Applications Engineering for assistance.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

Dimensions are approximate. Check with BETE for critical dimension applications.

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