FireBéter: Ultra-Wide Full Cone Coverage

**DESIGN FEATURES**
- Two-turn spiral
- Ultra-wide spray coverage very close to the nozzle
- One-piece design/no internal parts
- Excellent choice for deluge applications where there is little distance between nozzle and material being protected

**SPRAY CHARACTERISTICS**
- Wide spray coverage
- Fine atomization

**Spray patterns:**
- Circular sheet with maximum coverage and excellent atomization

**Spray angle:** 180° extra-wide angle

**Flow rates:** 3.80 to 110 gpm

TF29-180 nozzles in brass can be supplied in full compliance with MIL-S-24660.

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

### TF29-180 Flow Rates and Dimensions
**Extra-wide Spray Angle, 1/2" Pipe Size**

<table>
<thead>
<tr>
<th>Male Pipe Size</th>
<th>Nozzle Number</th>
<th>K Factor</th>
<th>10 PSI</th>
<th>20 PSI</th>
<th>30 PSI</th>
<th>40 PSI</th>
<th>50 PSI</th>
<th>60 PSI</th>
<th>80 PSI</th>
<th>100 PSI</th>
<th>200 PSI</th>
<th>400 PSI</th>
<th>Approx. Free Pass. &amp; Orifice Dia. (in.)</th>
<th>Wt. (lbs)</th>
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<td>1/2</td>
<td>TF29-180-16</td>
<td>1.20</td>
<td>3.80</td>
<td>5.37</td>
<td>6.58</td>
<td>7.60</td>
<td>8.50</td>
<td>9.31</td>
<td>10.7</td>
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<td>17.0</td>
<td>24.0</td>
<td>0.203</td>
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<td>17.0</td>
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<td>10.3</td>
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<td>14.5</td>
<td>16.2</td>
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</table>

**Flow Rate (GPM) = K \sqrt{PSI}**

**Standard Materials:** Brass and 316 Stainless Steel.

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