**TF29-180**

*FireBeter: 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: 12.3 to 355 l/min

**TF29-180 Flow Rates and Dimensions**

<table>
<thead>
<tr>
<th>Male 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>2 bar</th>
<th>3 bar</th>
<th>5 bar</th>
<th>10 bar</th>
<th>20 bar</th>
<th>Approx. Free Pass. &amp; Orifice Dia. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>TF29-180-16 17.3</td>
<td>12.3</td>
<td>14.5</td>
<td>17.3</td>
<td>24.5</td>
<td>30.0</td>
<td>38.8</td>
<td>54.8</td>
<td>77.5</td>
<td>5.16</td>
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<tr>
<td></td>
<td>TF29-180-18 27.4</td>
<td>19.4</td>
<td>22.9</td>
<td>27.4</td>
<td>38.7</td>
<td>47.4</td>
<td>61.2</td>
<td>86.5</td>
<td>122</td>
<td>6.35</td>
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<tr>
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<td>TF29-180-21 33.1</td>
<td>23.4</td>
<td>27.7</td>
<td>33.1</td>
<td>46.8</td>
<td>57.3</td>
<td>73.9</td>
<td>105</td>
<td>148</td>
<td>7.14</td>
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<td>TF29-180-24 43.3</td>
<td>30.6</td>
<td>36.3</td>
<td>43.3</td>
<td>61.3</td>
<td>75.1</td>
<td>96.9</td>
<td>137</td>
<td>194</td>
<td>8.33</td>
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<td>TF29-180-28 56.3</td>
<td>39.8</td>
<td>47.1</td>
<td>56.3</td>
<td>79.7</td>
<td>97.6</td>
<td>126</td>
<td>178</td>
<td>252</td>
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<td></td>
<td>TF29-180-32 79.4</td>
<td>56.1</td>
<td>66.4</td>
<td>79.4</td>
<td>112</td>
<td>137</td>
<td>177</td>
<td>251</td>
<td>355</td>
<td>11.1</td>
<td></td>
</tr>
</tbody>
</table>

Flow Rate (l/min) = $K\sqrt{\text{bar}}$

*Standard Materials: Brass and 316 Stainless Steel.*

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

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

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