Dynisco Melt Temperature
Probe Series DYKE

Description

The Dynisco Melt Thermocouple Series DYKE is especially designed to meet the requirements of the polymer industry. The flexible design of this series allows the use in extrusion and injection molding process.

The mounting thread is compatible with the threads used for melt pressure measurement. Therefore, the DYMT series is ready for use in most extrusion systems.

As an alternative to the DYM T series, the DYKE series offers the possibility of a thermal insulation of the housing. The sensor tip is being ceramically insulated from the housing.

These temperature sensors are especially suitable for the use in high abrasive media.

Features

- Rugged design
- Designed especially for the polymer industry
- 1000 bars max. pressure
- Various TC and RTD
- Various threads available
- DYNISCO pressure transducer mounting hole compatible
- Electrical connection: DIN connector (PT100) or 2-wire thermocouple
Technical Data / Operating Data

<table>
<thead>
<tr>
<th>Thread:</th>
<th>1/2&quot;-20 UNF, M18 x 1.5 or M14 x 1.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stem Length:</td>
<td>152 mm standard, others on request</td>
</tr>
<tr>
<td>Mounting Thread:</td>
<td>rotary, if ceramically insulated rigid</td>
</tr>
<tr>
<td>Blade Length:</td>
<td>several lengths from 5 - 25 mm, in 5 mm-steps available</td>
</tr>
<tr>
<td>Sensortip:</td>
<td>conical, selectable ceramic insulation</td>
</tr>
<tr>
<td>Material in Contact with Media:</td>
<td>Mat. No 1.4571</td>
</tr>
</tbody>
</table>

Electrical Characteristics

<table>
<thead>
<tr>
<th>Thermocouple:</th>
<th>J, K, L, other types on request</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTD:</td>
<td>wireable as 2-, 3- or 4-wire</td>
</tr>
<tr>
<td>Connector:</td>
<td>IEC-Connector for Thermocouples, DIN-Connector for RTD</td>
</tr>
<tr>
<td>Pipe Connection:</td>
<td>Straight or 90° angled</td>
</tr>
<tr>
<td>Cable Length:</td>
<td>150 mm, others on request</td>
</tr>
</tbody>
</table>

Use in hazardous environments with suitable accessory equipment possible

Dimensions

<table>
<thead>
<tr>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>D4</th>
<th>D5</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>SW</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2-20UNF-2A</td>
<td>7.8-0.05</td>
<td>10.5-0.05</td>
<td>11-0.5</td>
<td>12.5</td>
<td>5.3+0.25</td>
<td>11</td>
<td>16</td>
<td>19</td>
<td>5 - 30</td>
</tr>
<tr>
<td>M18 x 1.5</td>
<td>10-0.05</td>
<td>16-0.1</td>
<td>16-0.5</td>
<td>17.5</td>
<td>6-0.25</td>
<td>14</td>
<td>20</td>
<td>19</td>
<td>5 - 30</td>
</tr>
</tbody>
</table>
Mounting Instructions

Maximum mounting torque 40 Nm!
Under the following conditions:
- Avoid bending during screw into the mounting hole
- During screw out of the outer tube, avoid torsion at the inner tube
- Before mounting, ensure that the mounting hole is free from plastic residue

Ordering Guide

\[ \text{DYKE-X-XXX-XXXXX-XX - XX - X} \]

**Type**
- DYKE = Series with conical tip

**Mounting Thread**
- 1/2 = 1/2” 20 UNF 2A
- M14 = M14 x 1.5
- M18 = M18 x 1.5

**Temperature Sensor**
- J = Thermocouple type J acc. DIN IEC 584-1
- L = Thermocouple type L acc. DIN IEC 584-1
- K = Thermocouple type K acc. DIN IEC 584-1
- RTD = RTD

**Pipe Connection**
- G = Straight
- W = 90° angled
- F14 = Ceramic Tip

**Stem Length**
- 15 = Stem Length 152 mm (standard)
- Others on request

**Blade Length**
- = on request, between 5 and 25 mm, in 5 mm steps

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Refer to www.dynisco.com for access to Operator Manual and other support documentation.