Dynisco Melt Temperature Probe Series DYMT

Description

The Melt Thermocouple Series DYMT 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 processes.

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.

The blade style thermocouples feature a unique blade design which reduces friction in the melt stream, the special rotation design of the blade allows low friction installation.

The Melt Thermocouple Series DYMT is also available with dual TC or RTD.

Features

- Rugged design
- Designed especially for the polymer industry
- 1000 bars max. pressure
- Various TC and RTD
- Flush or blade style
- Blade can be positioned in flow direction
- Various threads available
- DYNISCO pressure transducer mounting hole compatible

From lab to production, providing a window into the process
### Technical Data / Operating Data

<table>
<thead>
<tr>
<th>Thread:</th>
<th>1/2”-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>Blade Length:</td>
<td>2.5 - 30 mm, on request</td>
</tr>
<tr>
<td>Material in Contact with Media:</td>
<td>15-5 Mat. No 1.4545</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>75 mm, others on request</td>
</tr>
</tbody>
</table>

### Dimensions

#### Melt Temperature Probe

<table>
<thead>
<tr>
<th>Thread</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>D4</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>SW</th>
</tr>
</thead>
<tbody>
<tr>
<td>M14 x 1.5</td>
<td>8</td>
<td>0.05</td>
<td>12</td>
<td>0.1</td>
<td>12</td>
<td>0.5</td>
<td>6.05</td>
<td>0.25</td>
</tr>
<tr>
<td>M18 x 1.5</td>
<td>10</td>
<td>0.05</td>
<td>16</td>
<td>0.1</td>
<td>16</td>
<td>0.5</td>
<td>6.25</td>
<td>0.25</td>
</tr>
<tr>
<td>1/2-20UNF-2A</td>
<td>7.9</td>
<td>0.05</td>
<td>11.5</td>
<td>0.1</td>
<td>11.5</td>
<td>0.5</td>
<td>5.3</td>
<td>0.25</td>
</tr>
</tbody>
</table>

#### Mounting Hole

<table>
<thead>
<tr>
<th>Thread</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>D4</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>M14 x 1.5</td>
<td>8.1</td>
<td>0.05</td>
<td>12.1</td>
<td>0.1</td>
<td>16</td>
<td>6.15</td>
<td>4.9</td>
</tr>
<tr>
<td>M18 x 1.5</td>
<td>10.1</td>
<td>0.05</td>
<td>16.3</td>
<td>0.2</td>
<td>20</td>
<td>6.15</td>
<td>4.9</td>
</tr>
<tr>
<td>1/2-20UNF-2A</td>
<td>7.92</td>
<td>0.05</td>
<td>11.5</td>
<td>0.1</td>
<td>13</td>
<td>5.7</td>
<td>3.2</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

DYMT-XXX-XXXXX-XX - XX - X

Type
F = Flush Style
S = Blade Style

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
PT 100/2 = 2-wire RTD
PT 100/3 = 3-wire RTD
PT 100/4 = 4-wire RTD
2XJ = Dual thermocouple type J
2XPT 100/3 = Dual 3-wire RTD

Flex
G = Straight
W = 90° angled

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

Blade Length (mm)
2.5 - 30 mm, per order