

Nozzle Melt T/C

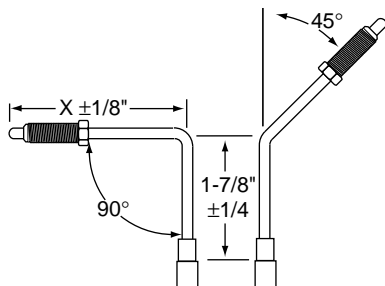
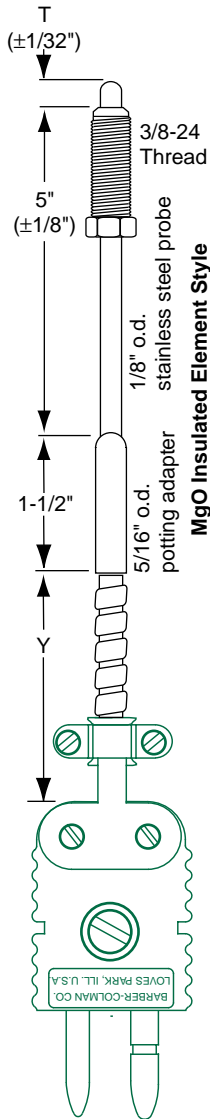
Nozzle Melt Thermocouple for Injection Molding

Introduction

The nozzle melt thermocouple is designed for injection molders. This stainless steel thermocouple fits on the nozzle of an injection molding machine and senses the actual temperature of the plastic just before it is injected into the mold. This allows accurate control of the nozzle. Direct contact is the most reliable way to measure the melt temperature.

The thermocouple seals against the high pressures encountered in the nozzle. The mounting rotates, simplifying installation and eliminating the twisting of the leads. Quick disconnect plugs may be ordered.

This thermocouple will withstand the abuse of long production runs. Start-up time is minimized with melt temperature conditions quickly established. Two Type J sensor styles are available: 24 gauge strand, fiberglass insulated with stainless steel overbraid; and solid, magnesium oxide insulated, stainless steel sheathed probe with transition to 20 gauge strand, fiberglass insulated wire. Since the MgO, SS sheathed probe can be formed over a mandrel as small as 1/4", this style is normally sold straight



Style	Response Time	Pressure Rating at 750°F
Magnesium Oxide	0.5 second	40,000 psi
Tubing and Fiberglass	0.9 second	40,000 psi

- Temperature rating to 750°F Excluding Cold End Termination
- Small Size – No Interference With Mold Platens
- Easy Installation – Mounting Nut Rotates; No Lead Twisting
- Improved Product Quality; Faster Setup Time

Model No. P - - - **5** -

Field No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Schedule: S2

Field 1. BASE MODEL

P - Plastics industry

Fields 2, 3. THERMOCOUPLE TYPE

☞ Determine length (Y + L) by completing Fields 10, 11, 12, and Field 7.

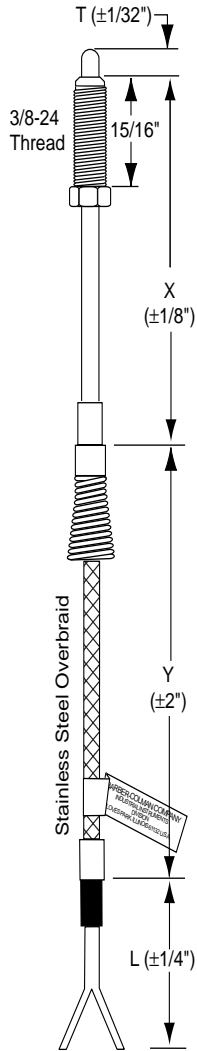
Type Description	18 to 36"	Ea. Add'l 6"
15 - J 24 gauge, strand, stainless steel overbraid		
16 - J MgO insulated with transition to 20 ga. strand		

Field 4. NUMBER OF ELEMENTS AND PROBE CONFIGURATION

- 1 - Single element, straight
 - 2 - Single element, 90°
 - 3 - Single element, 45°
- Fields 2, 3, Code 15 only**

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Ordering Information (continued)



Fields 5, 6. JUNCTION STYLE, PROBE O.D., LEAD PROTECTION

Determine length by completing Fields 10, 11, 12

Fields 2,3, Code 15 only

18 to 36"

Ea Add'l 6"

- 21 - Closed end, grounded 1/8" no flexible tube
- 23 - Closed end, grounded 1/8" flexible tube

Fields 2, 3, Code 16 only

- 41 - Closed end, grounded 1/8" flexible tube
- 42 - Closed end, ungrounded 1/8" flexible tube

Field 7. COLD END TERMINATION

- 0 - 2-1/2" split leads, ends stripped
- 1 - 2-1/2" split leads, spade lugs
- 2 - 2-1/2" split leads, spade lugs, 1/2" NPS box connector with lock nut
- 3 - Solid pin quick disconnect plug(s)
- 4 - Solid pin quick disconnect plug(s) with mating jack(s)
- 7 - Quick disconnect jack(s)
- C - Hollow pin quick disconnect plug(s), Type J only
- D - Hollow pin quick disconnect plug(s) with jack(s), Type J only

Extended Lead (DIMENSION "L")

Complete this Field to determine length for Fields 2, 3

- F - 12", split ends stripped In Fields 2, 3
- G - 24", split ends stripped In Fields 2, 3
- H - 48", split ends stripped In Fields 2, 3
- J - 96", split ends stripped In Fields 2, 3
- K - 144", split ends stripped In Fields 2, 3

For other lengths, consult factory

Fields 8, 9. RIGID LENGTH (DIMENSION "X")

- 00 - 5" (required when Fields 2,3 is code 16)
- 01 - 1-1/2"
- 02 - 1-3/4"
- 03 - 2"
- 04 - 2-1/4"
- 05 - 2-1/2"
- 99 - Other than above. Specify, in whole inches, on order
For each 6" over the first 6"

Fields 10, 11, 12. FLEXIBLE LENGTH (DIMENSION "Y")

Complete these Fields to determine length for Fields 2, 3; and 5, 6

YYY - Enter actual "Y" length in whole inches; minimum 018"

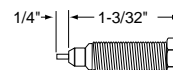
Field 13. RESERVED

Fields 14, 15. TIP LENGTH (DIMENSION "T")

- 01 - 1/8" (recommended)
- 02 - 3/16"
- 03 - 1/4"

Bolt Blank

Plugs mounting hole when sensor removed



11-03359