

# Nozzle Melt T/C

## Nozzle Melt Thermocouple for Injection Molding

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.

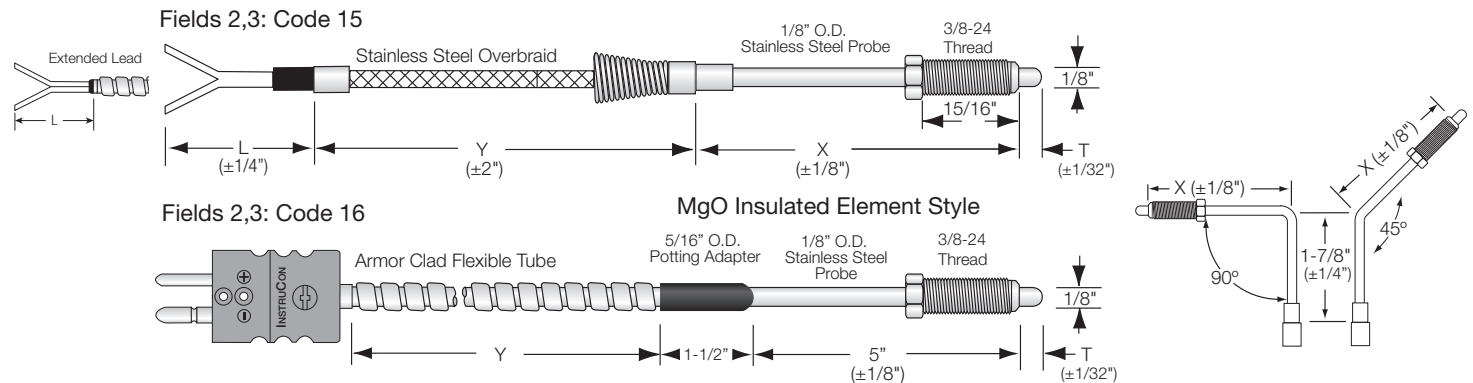
The thermocouple seals against the high pressures encountered in the nozzle. The mounting rotates, simplifying installation and eliminating the twisting of the leads. Quick disconnect plugs may be ordered.

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

### Features

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



Code	Field 1: Type												Code	Field 13: Style		
P	Plastics Industry Thermocouples	P											5	5	Nozzle Melt	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

**Field 2, 3**

Code	Thermocouple Type
15	Type J, 24 gauge, stranded, stainless steel overbraid
16	Type J, MgO (MI) insulated with transition to 20 gauge stranded wire

**Field 4**

Code	Number of Elements, Probe Configuration
1	Single element
2	Single element, 90°
3	Single element, 45°

**Fields 5,6**

Code	Junction Style	Lead Protection	Probe O.D.	Field 2, 3 Compatibility
21	Closed end, grounded	None	0.125"	Code 15 only
23	Closed end, grounded	Flexible armor	0.125"	Code 15 only
41	Closed end, grounded	Flexible armor	0.125"	Code 16 only
42	Closed end, ungrounded	Flexible armor	0.125"	Code 16 only

**Field 7**

Code	Cold End Termination
0	2-1/2 inch split leads, ends stripped
1	2-1/2 inch split leads, spade lugs
2	2-1/2 inch split leads, lugs and box connector
3	Solid pin quick disconnect plug
4	Solid pin quick disconnect plug and mating jack
7	Quick disconnect jack
C	Hollow pin quick disconnect plug
D	Hollow pin quick disconnect plug and mating jack
M	Miniature quick disconnect plug
N	Miniature quick disconnect and mating jack
Q	Miniature jack
9	Other - Consult Factory

**Code** Extended Lead Dimension "L"

F	12" extended lead, stripped ends L=12"
G	24" extended lead, stripped ends L=24"
H	48" extended lead, stripped ends L=48"
J	96" extended lead, stripped ends L=96"
K	144" extended lead, stripped ends L=144"

**Fields 14, 15**

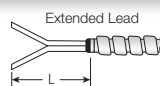
Code	Tip Length (Dimension "T")
01	1/8" (recommended)
02	3/16"
03	1/4"

**Fields 10, 11, 12**

Code	Flexible Length
YYY	Dimension "Y" (Specify YYY in whole inch increments, using three digits) NOTE: If over 998", specify 999 = "length" on order

**Fields 8,9**

Code	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.



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## Common Model Numbers

*(The numbers below are just some of the more common numbers for this product. There are too many combinations to list them all.)*

P151-21103-140-5-01  
P152-21003-100-5-01  
P152-21003-140-5-01  
P152-21101-060-5-03  
P152-21103-100-5-01  
P152-23001-048-5-01  
P152-23002-048-5-01  
P152-23105-040-5-01  
P152-23105-052-5-01  
P152-23105-060-5-01  
P152-23105-072-5-01  
P152-23105-082-5-01  
P152-23105-150-5-01  
P152-23301-018-5-01  
P152-23301-042-5-01  
P152-23303-012-5-01  
P152-23303-020-5-01  
P152-23305-012-5-01  
P152-23305-018-5-01  
P152-23C01-072-5-01  
P153-23405-008-5-01