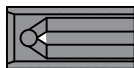


BTC44- A bearing thermocouple with armor is a dedicated temperature sensor used for monitoring bearing temperatures in industrial machinery. It features a thermocouple probe encased in a flexible armored sheath, providing superior mechanical protection. This sensor plays a crucial role in preventing overheating and potential failures in rotating equipment like motors, turbines, compressors, and gearboxes.

Key Feature:

- Adjustable bayonet Lock Mechanism provides a secure, spring-loaded connection for better contact with the bearing surface and allows for quick installation and removal without special tools.
- Available in Thermocouples Type-K, J and T. Type-K is most widely used for industrial applications.
- Spring-Loaded Tip ensures constant pressure against the bearing housing, improving heat transfer leading to faster response time and accurate temperature readings.
- Available in 0.188 " diameter and lengths depending on application requirements.

Thermocouple Junction options for BTC44



Ungrounded Junction: Junction is similar to grounded junction except wire are fuse welded, which is then insulated with Mgo powder and formed cap by welding without incorporating thermocouple wires. Thus, the junction is called the ungrounded junction.

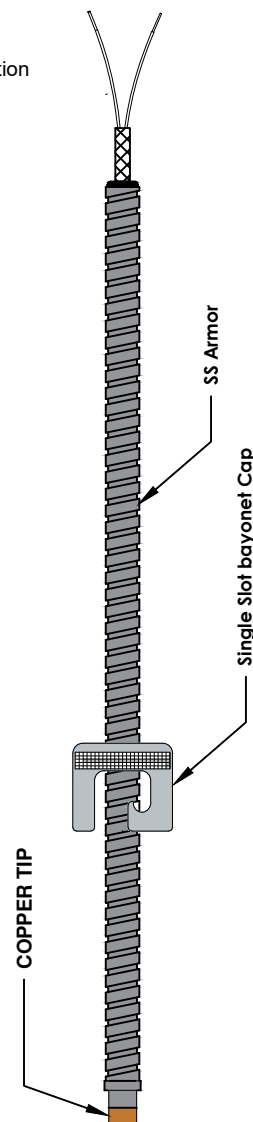
Key Benefits :

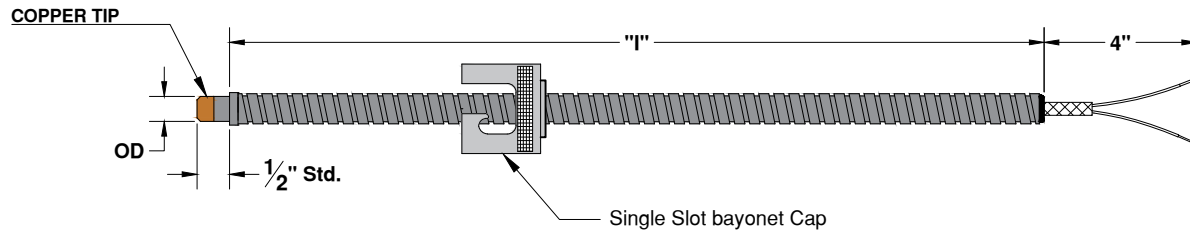
- Wires are protected from any mechanical damage
- Offers rugged construction, the same as the grounded junction.
- Strain due to differential expansion between wire and sheath is minimized with insulated wires.

Maximum Temperature Rating:

For Teflon Wire : 205°C

For Fiberglass Wire: 510°C





Notes:
1. Standard sheath material is SS316.

	1	2	3	4	5	6	7	8
BTC 44								

For Example- BTC44-J-UG-3-24i-1-STP-0-0

1. THERMOCOUPLE TYPE

CODE	
J	Iron(+) vs Constantan(-)
K	Chromel(+) vs Alumel(-)
T	Copper(+) vs Constantan(-)

2. MEASURING JUNCTION

CODE	
UG	Simplex / Un- Grounded Junction

3. SHEATH OD

CODE	IMPERIAL SIZE	METRIC SIZE
3	3/16"	4.76 mm

4. LEAD LENGTH (L)

Lead length - use "I" for inches and "M" for millimetre

5. WIRE TYPE

CODE	
1	TEFLON (205° C)
3	FIBRE GLASS (510° C)

6. CODES FOR TERMINATION

CODE	
Z	Bare ends
STP	Standard Plug
MP	Miniature Plug

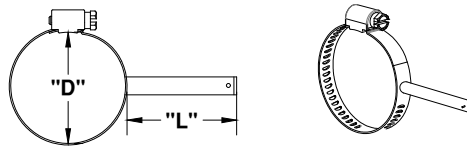
7. CODES FOR TERMINATION (JACK)

CODE	
0	Not required
STJ	Standard Jack
MJ	Miniature Jack

8. OPTIONAL ACCESSORY

CODE	
0	Not required
WC	Wire clamp
Only choose when ordering with connector	

ACCESSORIES



NOTE : SEE ACCESSORIES PAGE TO ORDER

Termination Options

