

PROHEAT

Industrial Heaters, Sensors & Controls

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Tech
Tip

What is this chart?

The chart to the right illustrates utilizing fixed bayonet-style thermocouples. Use this chart to determine the depth to drill your hole *OR* determine the correct bayonet adapter length if your hole is already drilled based upon the B dimension of the thermocouple.

There are 3 variables in installation:

1. B Dimension of sensor
(see illustration)
2. Length of bayonet-style adapter
3. Hole depth

How do I install a fixed bayonet thermocouple?

The bayonet adapter is used in conjunction with the spring loaded bayonet cap attached to the sensor sheath. The part to be measured is drilled and tapped for the installation of the bayonet adapter. After placing the sensor through the adapter, the spring is compressed and locked with the bayonet cap. This allows the sensing zone to be pushed tightly against the surface for increased accuracy and faster response time.

Hole Depth Matrix

"B" Dimension	Adapter Length				
	0.875	1	1.5	2	2.5
2.0	0.500	0.375			
2.5	0.875	0.750	0.375		
3.0	1.375	1.250	0.750	0.375	
3.5	1.875	1.750	1.250	0.750	0.375
4.0	2.375	2.250	1.750	1.250	0.750
4.5	2.875	2.750	2.250	1.750	1.250
5.0	3.375	3.250	2.750	2.250	1.750
5.5	3.875	3.750	3.250	2.750	2.250
6.0	4.375	4.250	3.750	3.250	2.750
6.5	4.875	4.750	4.250	3.750	3.250
7.0	5.375	5.250	4.750	4.250	3.750
7.5	5.875	5.750	5.250	4.750	4.250
8.0	6.375	6.250	5.750	5.250	4.750
8.5	6.875	6.750	6.250	5.750	5.250
9.0	7.375	7.250	6.750	6.250	5.750
9.5	7.875	7.750	7.250	6.750	6.250
10.0	8.375	8.250	7.750	7.250	6.750
10.5	8.875	8.750	8.250	7.750	7.250
11.0	9.375	9.250	8.750	8.250	7.750
11.5	9.875	9.750	9.250	8.750	8.250
12.0	10.375	10.250	9.750	9.250	8.750

