

Description & Features

Winters Bi-Metal Thermometer Thermowells are available in a wide range of materials for use on most applications. The use of a Bi-Metal Thermometer Thermowell allows for the creation of a "sealed system" whereby the thermometer can be removed from the application without the need for shutting down or draining the system. Also, an additional benefit of a thermowell is to protect the thermometer from possible exposure to the media.

Our standard "stepped construction" offering is complemented by an array of custom thermowells including: straight, tapered sanitary and flanged configurations.

Specifications

Thermometer

1/2" NPT female standard

Process Connection

3/4", 1/2", or 1" NPT
other thread size are available upon request

Bore

0.260" (6.604mm) bore standard

Construction

Stepped construction standard;
Tapered or straight construction available upon request

Material

Brass, 304, 316, 316L, Duplex stainless steel
Monel, Hastelloy C and others



Ordering Code TBR Series

(Continued on the following page)

TBR - - - - - -

Shank Style

Stepped **SM**
 Straight **SH**
 Tapered **ST**

Materials

304 SS **2**
 316 SS **5**
 316L SS **L**
 316 SS coated with PTFE **T**
 Brass **B**
 Alloy 800 **Y**
 Inconel 600 **C**
 Duplex 2205 **D**
 Monel **M**
 Hastelloy C **H**
 Tantalum **N**
 Titanium **A**
 Special **Z**

Instrument Connection Size

1/4" **4**
 1/2" **2**
 3/4" **5**
 3/8" **3**
 Special requests **Z**

Instrument Connection Threaded Standard

NPT **N**
 G (B) **G**
 BSP(P) **B**
 BSPT **T**
 M20 X 1.5 **M**
 M16 X 1.5 **K**
 M27 X 2 **E**
 Special requests **Z**

Overall Length "L" in mm

4" (100mm) **0 4 0**
 120mm **1 2 0**
 150mm **1 5 0**
 Others, please specify the length in mm **XXX**

Length "H" Dimension in mm

20mm, standard, lag length "T"= 0 **2 0**
 Others please specify "H" in mm with wrench allowance length "W"=20mm add lag length "T" in mm... **Z Z**

Immersion Length "U"(Excluded Thread Length) in mm

2.5" (63mm) **0 2 5**
 4" (100mm) **0 4 0**
 Others, please specify the length in mm **XXX**

NOTE

Only when U ≤ 1500mm, a thermowell is machined from one bar stock
 U > 1500mm, a thermowell is welded from two components



TBR Series Thermowells With Threaded Process Connection

(Continued from the previous page)

Ordering Code TBR Series

	TBR	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
		↑		↑		↑		↑		↑		↑
Process Connection Size												
1/2"		2										
3/4"		3										
1"		4										
Special requests		Z										
Process Connection Thread Standard												
NPT				N								
G (B)				G								
BSP(P)				B								
BSPT				T								
M20 X 1.5				M								
M27 X 2				E								
Special requests				Z								
Bore Diameter "B" in mm												
6.6mm						66						
7mm						07						
9mm						09						
10mm						10						
12mm						12						
Others, please specify the length in mm						XX (e.g.14mm)						
Root Outside Diameter "Q" in mm												
16mm								16				
18mm								18				
20mm								20				
22mm								22				
24mm								24				
Others, please specify the length in mm								XX (e.g.26mm)				
Tip Outside Diameter "D" in mm												
16mm										16		
18mm										18		
20mm										20		
22mm										22		
24mm										24		
Others, please specify the length in mm										XX (e.g.26mm)		
Option												
Oxygen Service												VN
NACE MR 0175-2002												NR
Please specify the length in mm for step length M Stepped style not 2.5"												ZZ

NOTE – USER RESPONSIBILITY

For most industrial applications, a properly selected thermowell must be based on application parameters: fluid type, temperature, pressure, and fluid velocity. Most thermowell failures are due to vibration induced by fluid flow.

Threaded Thermowells

