

Description & Features

- Available in a wide range of materials for use on most applications
- Standard “stepped construction” offering is complemented by an array of custom thermowells including: straight, tapered, sanitary and flanged configurations

Applications

- 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
- To protect the thermometer from possible exposure to the process media

Specifications

Construction

Stepped construction standard;
Tapered or straight construction available upon request

Thermowell Material

AISI 304 stainless steel, AISI 316 stainless steel, AISI 316L stainless steel, and Duplex stainless steel, Other materials are available upon requests

Instruments Connection

1/2" NPT female standard,
other thread size are available upon request

Process Connection

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

Stem Length

2.5" (63mm), 4" (100mm), 6" (150mm), 9" (229mm), 12" (305mm)
other thread size are available upon request



Length "H" Dimension

20mm standard
Others , please specify the length in mm

Tip Diameter

16mm, 18mm, 20mm, 22mm, 24mm
Others , please specify the length in mm

Immersion Length (Excluded Thread Length)

2.5" (63mm), 4" (100mm)
Others , please specify the length in mm

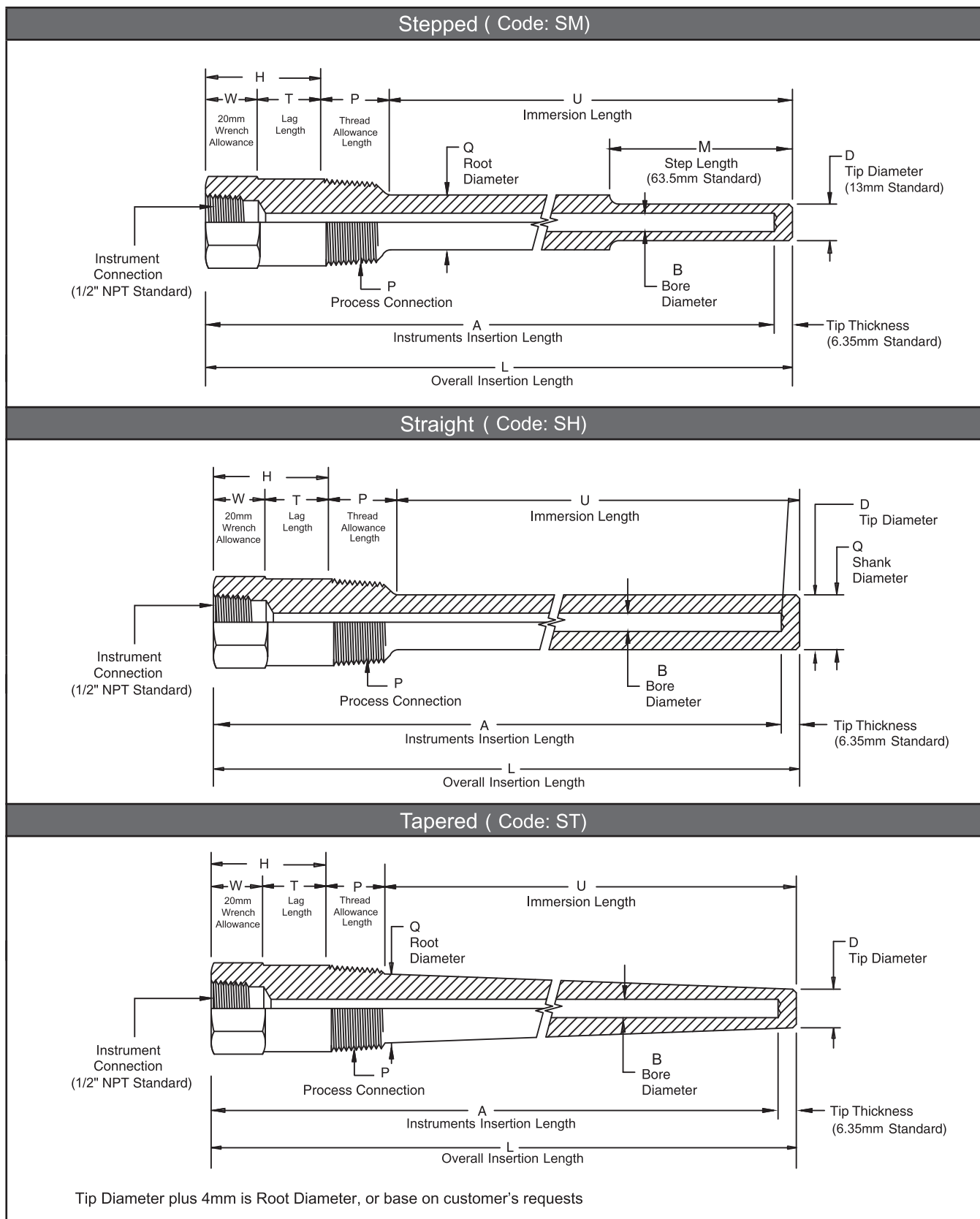
Bore Diameter

7mm standard
Others , please specify the length in mm

Option

Oxygen service
NACE MR 0175-2002
Please specify the length in mm for step length M stepped style not 2.5"

Dimensions (Unit: mm)



Ordering Code TBR Series

Field No.	Code	Specifications
1.	TBR	Series
2.		Shank Style
	SM	Stepped
	SH	Straight
	ST	Tapered
3.		Material
	T	304 SS
	S	316 SS
	L	316L SS
	P	316 SS with PTFE Coated
	B	Brass
	V	Alloy 800
	C	Inconel 600
	D	Duplex 2205
	M	Monel
	H	Hastelloy C
	A	Tantalum
	Q	Titanium
	Z	Special request
4.		Instruments Connection Size
	4	1/4"
	2	1/2"
	5	3/4"
	3	3/8"
	Z	Special request
5.		Instruments Connection Threaded Standard
	N	NPT
	G	G B
	T	BSPT
	P	BSPP
	M	M20X1.5
	E	M27X2
	Z	Special request
6.		Overall Length "L" in mm
	120	120mm
	150	150mm
	ZZZ	Others , please specify the length in mm
7.		Length "H" Dimension in mm
	20	20mm, standard, lag length "T" = 0
	ZZ	Others please specify "H" in mm with wrench allowance length "W" = 20mm add lag length "T" in mm
8.		Immersion Length "U" (Excluded Thread Length) in mm
	063	2.5" (63mm)
	100	4" (100mm)
	150	6" (150mm)
	ZZZ	Other, please specify the length in mm

NOTE

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

Ordering Code TBR Series

Field No.	Code	Specifications
9.		Process Connection Size
	2	1/2"
	5	3/4"
	1	1"
	Z	Special request
10.		Process Connection Threaded Standard
	N	NPT
	G	G B
	T	BSPT
	P	BSPP
	M	M20X1.5
	E	M27X2
Z	Special request	
11.		Bore Diameter "B" in mm
	07	7mm standard
	09	9mm
	11	11mm
	ZZ	Others , please specify the length in mm
12.		Root Outside Diameter "Q" in mm
	16	16mm
	18	18mm
	20	20mm
	22	22mm
	ZZ	Others , please specify the length in mm
13.		Tip Outside Diameter "D" in mm
	16	16mm
	18	18mm
	20	20mm
	22	22mm
	ZZ	Others , please specify the length in mm
14.		Option
	VN	Oxygen service
	RR	NACE MR 0175-2002
	ZZ	Please specify the length in mm for step length M stepped style not 2.5"

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.