

Description & Features

- Stepped, Tapered or straight construction
- 1.5", 2", 2.5" Tri-Clamp
- Allows for easy installation and replacement of bi-metallic dial thermometers without draining the process
- Solid machined version without welding
- Heavy-duty design

Applications

- Petrochemical industry, on-/offshore, plant construction
- Food and beverage industry

Specifications

Construction

Stepped construction standard;
Tapered or straight construction available upon request

Thermowell Material

AISI 304 stainless steel or AISI 316 stainless steel,
Other materials are available upon requests

Instruments Connection

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

Process Connection

1.5", 2", 2.5", 3" Tri-Clamp

Overall Length

120mm, 150mm
other thread size are available upon request

Length "H" Dimension

45mm 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), 6" (150mm)
Others , please specify the length in mm

Bore Diameter

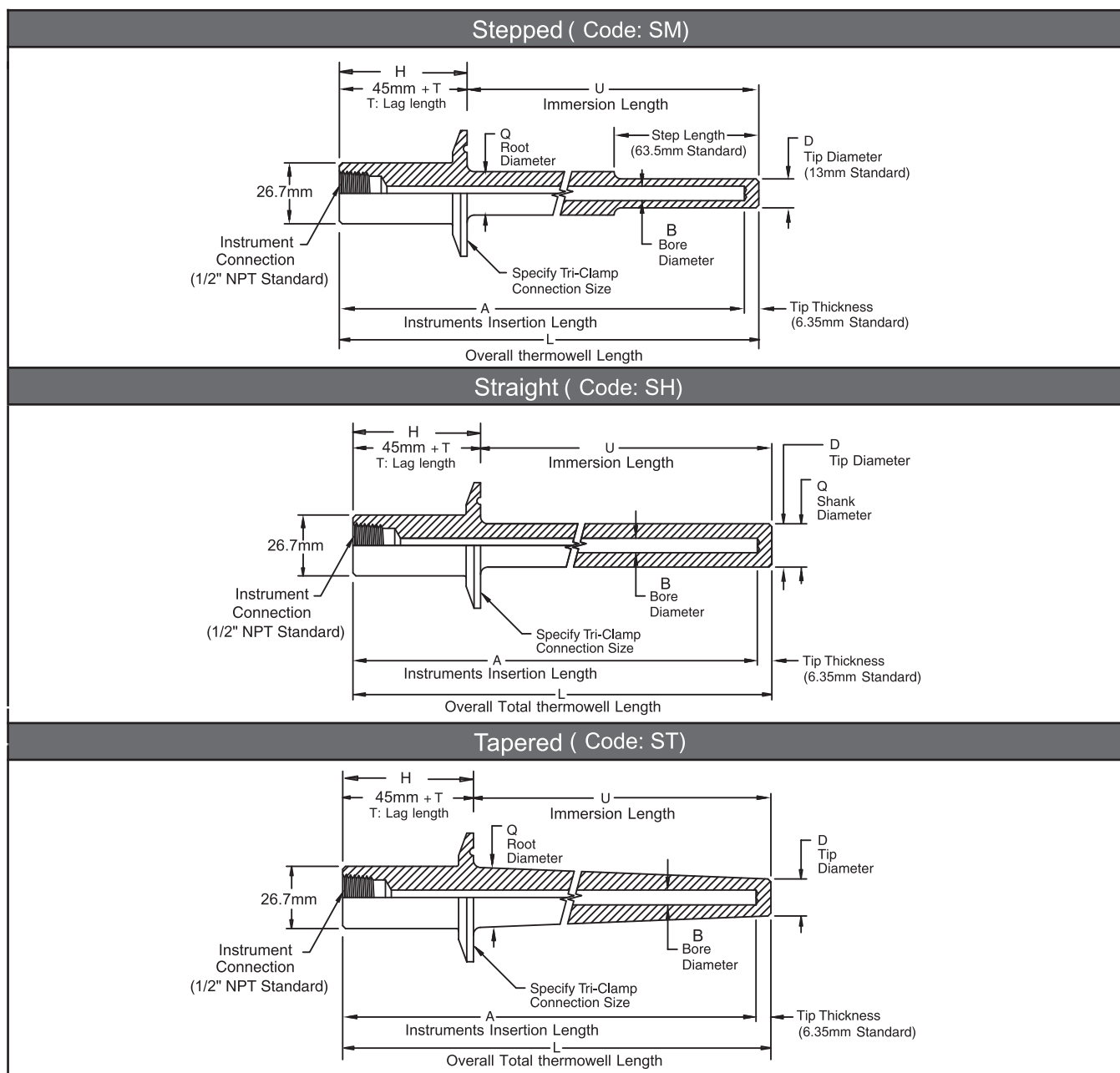
7mm standard
Others , please specify the length in mm

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 TSA Series

Field No.	Code	Specifications
1.	TSA	Series
2.		Shank Style
	SM	Stepped
	SH	Straight
	ST	Tapered
3.		Material
	T	304 SS
	S	316 SS
	L	316L SS
	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
	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
	45	45mm, standard, lag length "T" = 0
	ZZ	Others please specify "H" in mm with wrench allowance length "W" = 45mm 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 TSA Series

Field No.	Code	Specifications
9.	<input type="text"/>	Sanitary Pressure Connection Size
		1 1.5 Tri-Clamp
		2 2" Tri- Clamp
		3 2.5" Tri- Clamp
10.	<input type="text"/>	Bore Diameter "B" in mm
		07 7mm standard
		09 9mm
		11 11mm
11.	<input type="text"/>	ZZ Others , please specify the length in mm
		Root Outside Diameter "Q" in mm
		16 16mm
		18 18mm
		20 20mm
12.	<input type="text"/>	22 22mm
		ZZ Others , please specify the length in mm
		Tip Outside Diameter "D" in mm
		16 16mm
		18 18mm
13.	<input type="text"/>	20 20mm
		22 22mm
		ZZ Others , please specify the length in mm
		Option
		VN Oxygen service
		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.