

Special Features :

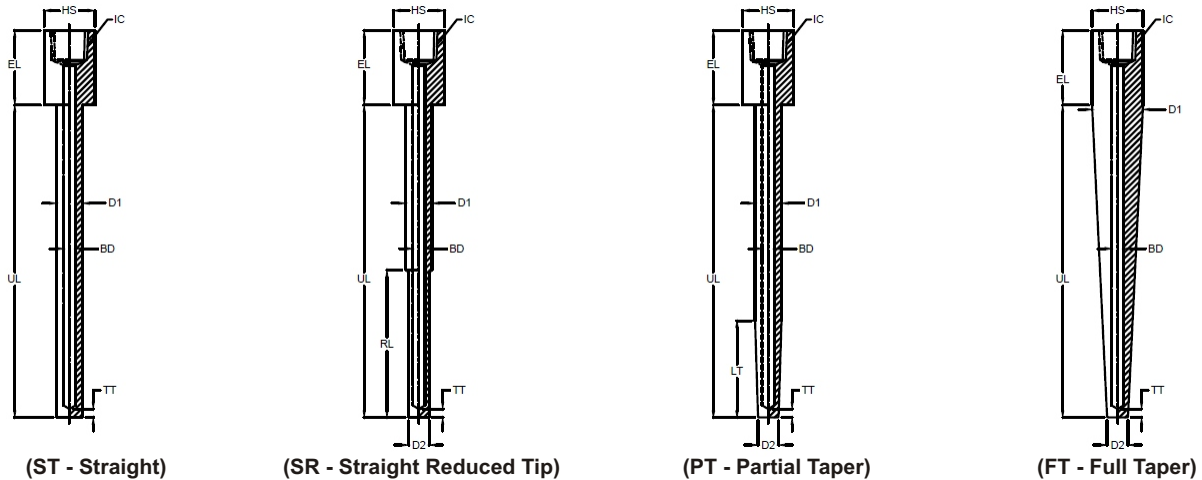
- Design as per PTC 19.3.
- These Thermowells are machined from solid bar stock and inserted into the process through direct welded attachment.
- The design is suitable for all type of RTD's, Thermocouples, Mechanical as well as digital Thermometers.
- Available in various shapes like Straight, Straight with reduced tip, Partial taper & full taper.

Application :

- Chemical Plants
- Petrochemical Plants
- On Shore & Off Shore
- Engineering Plants
- Other similar process Industries



Thermowell Drawings :



Note: Drawings are not to scale. All Dimensions are in mm.

HS - Finished Head Size
 IC - Instrument Connection
 BD - Bore Diameter

TT - Tip Thickness
 D1 - Major Diameter
 D2 - Minor Diameter
 EL - Extension Length

UL - Insertion Length
 RL - Reduced Tip Length
 LT - Taper Length

SELECTION OF MODEL

(1) MODEL CODE

(2) TYPE

Straight	ST	Partial Taper	PT
Straight Reduced Tip	SR	Full Taper	FT

(3) MATERIAL

Carbon Steel	CS	AISI 321 SSI	S21	Inconel 625	IN
AISI 304 SS	S4	AISI 310 SS	S10	Titanium	TI
AISI 316 SS	S6	Hastelloy C	HT	Nickel	NI
AISI 316L SS	S6L	Monel	MN		

Note: Other Materials are available on Request.

TW6

ST

S6

SELECTION OF MODEL

(4) INSTRUMENT CONNECTION "IC"

1/2" BSP(F)	4BF
1/2" NPT(F)	4NF
1/2" R(F)	4RF
1/2" G(F)	4GF
3/4" BSP(F)	5BF

3/4" NPT(F)	5NF
3/4" R(F)	5RF
3/4" G(F)	5GF
1" BSP(F)	6BF
1" NPT(F)	6NF

1" G(F)	6GF
1" R(F)	6RF
M18 x 1.5(F)	3MF
M20 x 1.5(F)	4MF
M22 x 1.5(F)	5MF

M24 x 1.5(F)	6MF
M27 x 1.5(F)	7MF
M33 x 1.5(F)	9MF

Note: Other Connections are available on Request.

(5) EXTENSION / LAGGING LENGTH "EL"

EL50 (Standard)

e.g. : For length 50mm, mention EL50.

(6) FINISHED HEAD SIZE "HS"

PLEASE SPECIFY IN mm

e.g. : For 28mm Finished head size, Specify HS28

(7) TYPE OF HEAD

Hex Headed*	HH
Round Headed	RH

*Maximum "U" Length below thread will be 800mm.

(8) BORE DIAMETER "BD"

PLEASE SPECIFY IN mm

e.g. : For length 9mm, mention BD9.

Note: Refer Thermowell design procedure for dimension as per PTC 19.3

(9) MAJOR DIAMETER

ST	RT	PT
<p>Major Diameter "D1" Please specify in mm e.g. For 22mm mention D122</p>	<p>Major Diameter of Step "D1" Please specify in mm e.g. For 22mm mention D122</p>	<p>Major Diameter of Taper "D1" Please specify in mm e.g. For 22mm mention D122</p>
<p>Major Diameter of Taper "D1" Please specify in mm e.g. For 22mm mention D122</p>	<p>Minor Diameter of Step "D2" Please specify in mm e.g. For 18mm mention D218</p>	<p>Minor Diameter of Taper "D2" Please specify in mm e.g. For 18mm mention D218</p>
<p>Minor Diameter of Taper "D2" Please specify in mm e.g. For 18mm mention D218</p>	<p>Length of Step "RL" Please specify in mm e.g. For 100mm step length from tip, specify RL100</p>	<p>Length of Step "TL" Please specify in mm e.g. For taper length from tip of 150mm, specify TL150</p>

Note: Refer Thermowell design procedure for dimension as per PTC 19.3

(10) TIP THICKNESS "TT"

TT5 (Standard)

e.g. : For Tip Thickness 5mm, specify TT5.

(11) INSERTION LENGTH "UL"

PLEASE SPECIFY IN mm

e.g. : For 800mm, mention UL800.

Note: Refer Thermowell design procedure for dimension as per PTC 19.3

(12) OPTIONS

Plug & Chain in SS	CP
Marking by Laser	LM
SS Tag Plate	TS

4NF

EL50

HS28

HH

BD9

XX

TT5

UL800

XX

SELECTION OF MODEL

(13) TESTS & CERTIFICATION

Radiography fo Bore Concentricity	TC1	Wake Frequency Calculations as [per PTC 19.3*	TC7
IBR Certification	TC2	Certification for Hydrogen Service	TC8
Mechanical Test	TC3	Certification for Oxygen Service	TC9
Ultrasonic Test	TC4	Chemical Composition Test	TT1
PMI Test	TC5	3.1B Material Conformity Certificate	TT2
	TC6	Conformity as per NACE Standard	TNC

*Please specify Fluid, Max. Pressure, Temperature & Flow velocity for wake frequency calculations as per PTC 19.3.

Example	1	2	3	4	5	6	7	8	9
SELECTION OF MODEL	TW6	ST	S6	4NM	EL50	HS28	HH	BD9	XX

Example	10	11	12	13
SELECTION OF MODEL	TT5	UL800	XX	XX

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