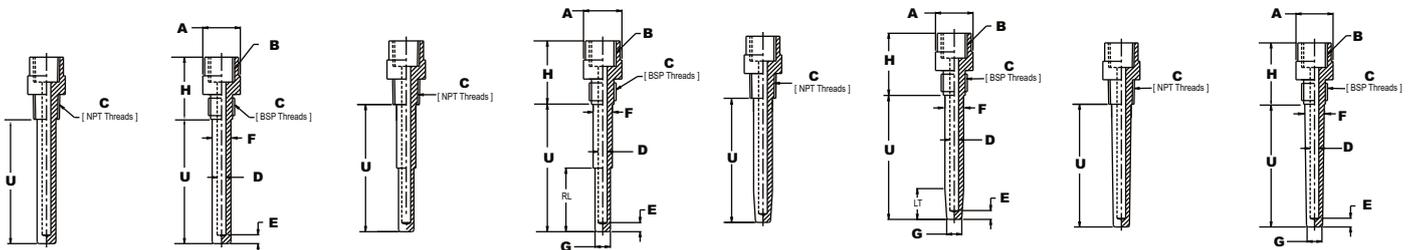




Special Features

- Design as per PTC 19.3
- These Thermowells are manufactured from solid bar stock and installed into the process with the help of threaded process connection.
- This design is suitable for all type of RTD's, Thermocouples, mechanical as well as digital Temperature Gauges.
- Available in various shapes like Straight, Straight with reduced tip, partial taper & full taper

Thermowell Drawings



S - Straight

R - Straight Reduced Tip

P - Partial Taper

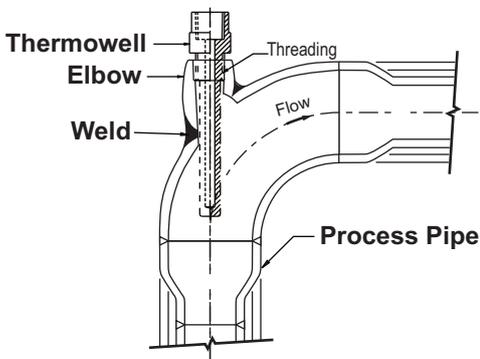
F - Full Taper

A - Finished Head Size
B - Instrument Connection
C - Process Connection
D - Bore Diameter

E - Tip Thickness
F - Major Diameter
G - Minor Diameter
H - Extension Length

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

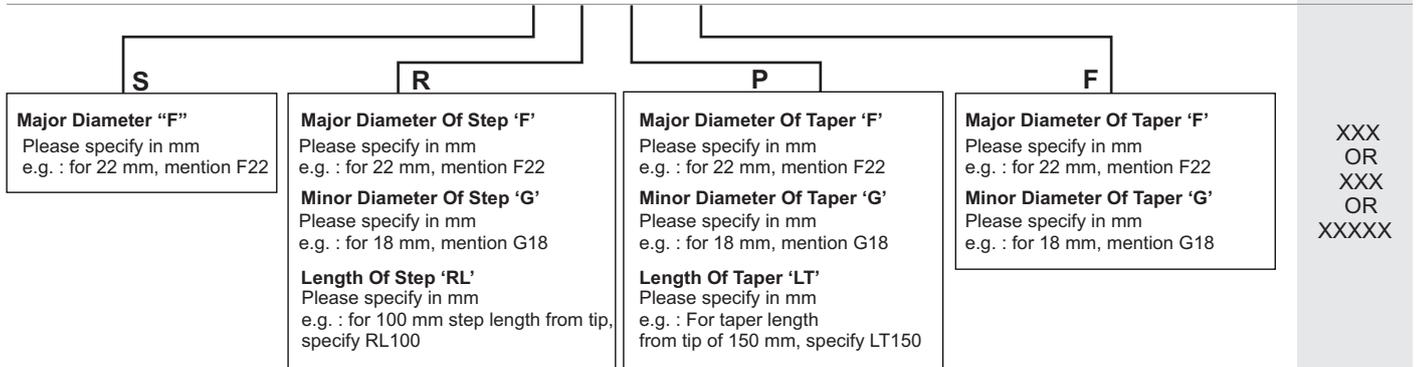
Thermowell Installation



How To Order					Example
Basic Model					TW1
Type					
S - Straight	R - Straight Reduced Tip	P - Partial Taper	F - Full Taper		X
Material					
S64 AISI 304 SS	S10 AISI 310 SS	I60 Inconel 600	CST Carbon Steel		XXX
S66 AISI 316 SS	HST Hastelloy C	A20 Alloy 20			
S6L AISI 316L SS	S21 AISI 321 SS	NIK Nickel			
Note : Other Materials are available on request.					
Instrument Connection "B"					
3BF 3/8" BSP (F)	4BF 1/2" BSP (F)	5BF 3/4" BSP (F)	M18 M18 x 1.5 (F)		XXX
3NF 3/8" NPT (F)	4NF 1/2" NPT (F)	5NF 3/4" NPT (F)	M20 M20 x 1.5 (F)		
3TF 3/8" BSPT (F)	4TF 1/2" BSPT (F)	5TF 3/4" BSPT (F)	M22 M22 x 1.5 (F)		
		6BF 1" BSP (F)	M24 M24 x 1.5 (F)		
		6NF 1" NPT (F)	M27 M27 x 2 (F)		
		6TF 1" BSPT (F)	M33 M33 x 2 (F)		
Note : Other Connections are available on request.					
Process Connection "C"					
3BM 3/8" BSP (M)	4BM 1/2" BSP (M)	5BM 3/4" BSP (M)	6BM 1" BSP (M)	M20 M20 x 1.5 (M)	XXX
3NM 3/8" NPT (M)	4NM 1/2" NPT (M)	5NM 3/4" NPT (M)	6NM 1" NPT (M)	M24 M24 x 1.5 (M)	
3TM 3/8" BSPT (M)	4TM 1/2" BSPT (M)	5TM 3/4" BSPT (M)	6TM 1" BSPT (M)	M27 M27 x 2 (M)	
				M33 M33 x 2 (M)	
Note : Other Connections are available on request.					
Finished Head Size "A" (Refer Table 1.1 for selection of Head Size for Thermowell)					
Please Specify in mm					XXX
e.g. : For 28 mm Finished head Size, specify A28					
Type Of Head					
H Hex Headed*	R Round Headed With Spanner Slots			X	
* Maximum "U" Length below thread will be 900 mm.					
Extension / Lagging Length "H"					
H50 (Standard)					XXX
For e.g. : for length 65 mm, mention H65					
Bore Diameter "D"					
A 6.6 mm	B 7 mm	C 8.5 mm	D 9 mm		X
E 10.5 mm	F 11 mm	G 13 mm	H 13.5 mm		
Note : Refer Table 1.3 of Thermowell Design Procedure for dimensions as per PTC 19.3					

Major Diameter “F”

Example



Note : Refer Table 1.3 of Thermowell Design Procedure for dimensions as per PTC 19.3

Tip Thickness “E”

Standard Tip Thickness is 5 mm.
 For others, please specify in mm.
 e.g. : Specify E5 for 5 mm Tip Thickness

XX

Insertion Length “U”

Please specify in mm
 e.g. : for 250 mm, mention U250
 Note : Refer Table 1.4 of Thermowell Design Procedure for dimensions as per PTC 19.3

XXXX

Options

PAC Plug and chain in SS	STG SS Tag Plate	ENM Marking by Engraving
EPC Electro polishing	LAM Marking by Laser	

Tests & Certification

RBC Radiography for Bore Concentricity	WFC Wake Frequency Calculations as per PTC 19.3*
IBR IBR Certification	CCT Chemical Composition Test
MET Mechanical Test	31B 3.1B Material Conformity Certificate
ULT Ultrasonic Test	CNS Conformity as per NACE Standard
PMI PMI Test	

XXX

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

Ordering Example:

Tw1 . X . XXX . XXX . XXX . XXX . X . XXX . X . XXX OR XXX OR XXXXX . XX . XXXX . XX

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing.
 Modifications may take place and materials specified may be replaced by others without prior notice.
 For Any Custom / Non Standard / Special Requirement Consult Factory..