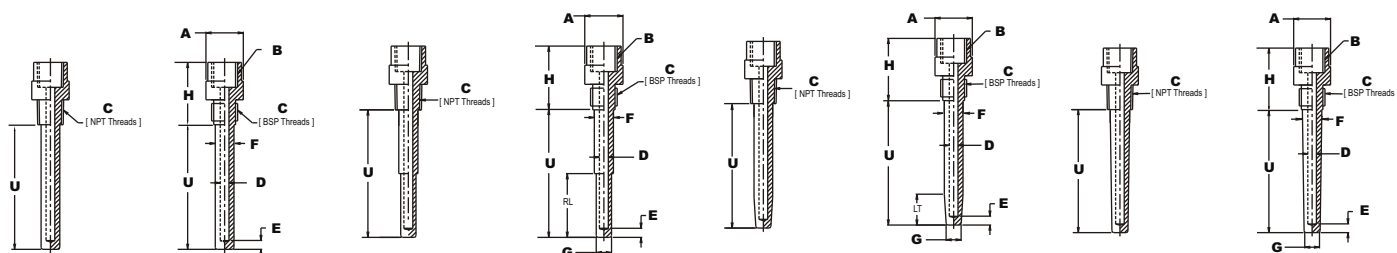




Special Features

- 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 thermometers
- Available in various shapes like Straight, Straight with reduced tip, partial taper & full taper

Thermowell Drawings



S - Straight

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

R - Straight Reduced Tip

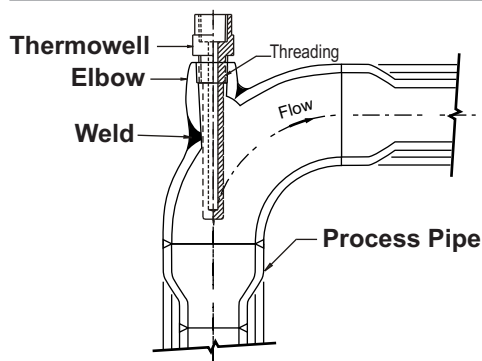
E - Tip Thickness
F - Major Diameter
G - Minor Diameter
H - Extension Length

P - Partial Taper

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

F - Full Taper

Thermowell Installation



How To Order					Example
Basic Model					W1
Type					
S - Straight	R - Straight Reduced Tip	P - Partial Taper	F - Full Taper	X	
Material					
LQ Carbon Steel	EP AISI 410 SS	LT Monel	LV Titanium	XX	
LP AISI 304 SS	EQ AISI 347 SS	LU Inconel 600	LW Tantalum		
LM AISI 316 SS	LO AISI 316Ti SS	ES Inconel 625	LX Nickel		
LN AISI 316L SS	ER AISI 304L SS	ET Incolloy 800	LY HRS 446		
EN AISI 321 SS	LR Hastelloy B	EU Incolloy 825	LZ Alloy 20		
EO AISI 310 SS	LS Hastelloy C	MQ Brass	EV Kanthal		
Note : Other Materials are available on request.					
Instrument Connection “B”					
3BF 3/8” BSP (F)	4BF ½” BSP (F)	5BF ¾” BSP (F)	3MF M18 x 1.5 (F)	XXX	
3NF 3/8” NPT (F)	4NF ½” NPT (F)	5NF ¾” NPT (F)	4MF M20 x 1.5 (F)		
3TF 3/8” BSPT (F)	4TF ½” BSPT (F)	5TF ¾” BSPT (F)	5MF M22 x 1.5 (F)		
3PF 3/8” G (F)	4FF ½” PF (F)	6BF 1” BSP (F)	6MF M24 x 1.5 (F)		
	4YF ½” R (F)	6NF 1” NPT (F)	7MF M27 x 2 (F)		
	4PF ½” G (F)	6TF 1” BSPT (F)	9MF M33 x 2 (F)		
Note : Other Connections are available on request.					
Process Connection “C”					
3BM 3/8” BSP (M)	4BM ½” BSP (M)	5BM ¾” BSP (M)	6BM 1” BSP (M)	4MM M 20 x 1.5 (M)	XXX
3NM 3/8” NPT (M)	4NM ½” NPT (M)	5NM ¾” NPT (M)	6NM 1” NPT (M)	6MM M 24 x 1.5 (M)	
3TM 3/8” BSPT (M)	4TM ½” BSPT (M)	5TM ¾” BSPT (M)	6TM 1” BSPT (M)	7MM M 27 x 2 (M)	
3PM 3/8” G (M)	4FM ½” PF (M)	5FM ¾” PF (M)	6FM 1” PF (M)	9MM M 33 x 2 (M)	
	4YM ½” R (M)	5YM ¾” R (M)	6YM 1” R (M)		
	4PM ½” G (M)	5PM ¾” G (M)	6PM 1” G (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					
K Hex Headed*	M Round Headed With Spanner Slots#				X
* Maximum “U” Length below thread will be 250 mm.		# Except material option MQ.			
Extension / Lagging Length “H”					
H50 (Standard)					XXX
For e.g. : for length 75 mm, mention H75					
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
S Major Diameter “F” Please specify in mm e.g. : for 22 mm, mention F22 R Major Diameter Of Step ‘F’ Please specify in mm e.g. : for 22 mm, mention F22 Minor Diameter Of Step ‘G’ Please specify in mm e.g. : for 18 mm, mention G18 Length Of Step ‘RL’ Please specify in mm e.g. : for 100 mm step length from tip, specify RL100 P Major Diameter Of Taper ‘F’ Please specify in mm e.g. : for 22 mm, mention F22 Minor Diameter Of Taper ‘G’ Please specify in mm e.g. : for 18 mm, mention G18 Length Of Taper ‘LT’ Please specify in mm e.g. : For taper length from tip of 150 mm, specify LT150 F Major Diameter Of Taper ‘F’ Please specify in mm e.g. : for 22 mm, mention F22 Minor Diameter Of Taper ‘G’ Please specify in mm e.g. : for 18 mm, mention G18				XXX OR XXX OR XXXXX
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 GG Plug and chain in SS SX SS Tag Plate CX Marking by Engraving FW Electro polishing CW Marking by Laser				
Tests & Certification				XX
C1 Radiography for Bore Concentricity		C7 Wake Frequency Calculations as per PTC 19.3*		
C2 IBR Certification		C8 Certification for Hydrogen Service		
C3 Mechanical Test		C9 Certification for Oxygen Service		
C4 Ultrasonic Test		T1 Chemical Composition Test		
C5 PMI Test		T2 3.1B Material Conformity Certificate		
C6 IGC Test		TF Conformity as per NACE Standard		
* Please Specify Fluid, Max. Pressure, Temperature & Flow velocity for wake frequency calculations as per PTC 19.3				
Ordering Example:				
W1 . X . XX . XXX . XXX . XXX . X . XXX . X . XXX OR XXX OR XXXXX . XX . XXXX . XX				