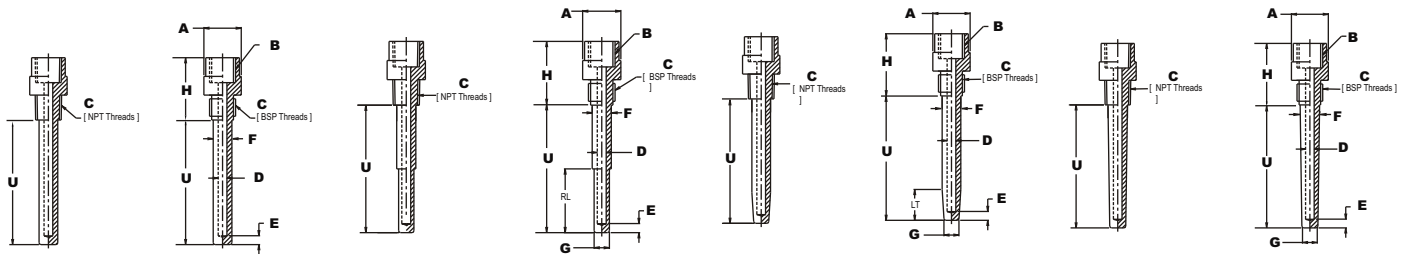



Special Features

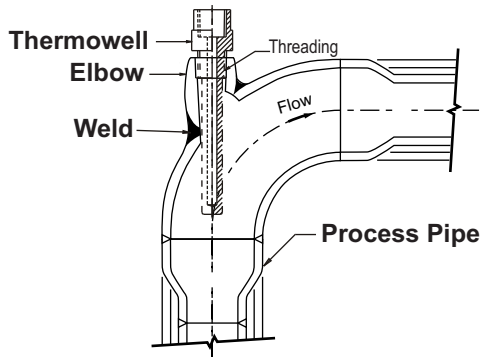
- Design as per PTC 19.3
- These Thermowells are manufactured from solid bar stock and installed into the process with the help of threaded process connection.
- This design is suitable for all type of RTD's, Thermocouples, mechanical as well as digital thermometers
- Available in various shapes like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

Thermowell Drawings

S - Straight
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

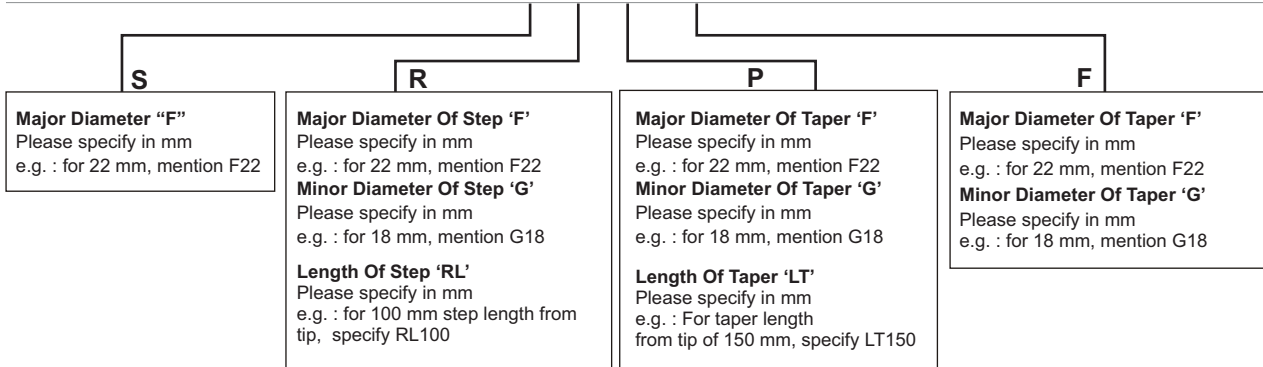
U - Insertion Length
RL - Reduced Tip Length
LT - Taper Length

Thermowell Installation


How To Order					Example
Basic Model					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 1/2" BSP (F)	5BF 3/4" BSP (F)	3MF M18 x 1.5 (F)		XXX
3NF 3/8" NPT (F)	4NF 1/2" NPT (F)	5NF 3/4" NPT (F)	4MF M20 x 1.5 (F)		
3TF 3/8" BSPT (F)	4TF 1/2" BSPT (F)	5TF 3/4" BSPT (F)	5MF M22 x 1.5 (F)		
3PF 3/8" G (F)	4FF 1/2" PF (F)	6BF 1" BSP (F)	6MF M24 x 1.5 (F)		
	4YF 1/2" R (F)	6NF 1" NPT (F)	7MF M27 x 2 (F)		
	4PF 1/2" 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 1/2" BSP (M)	5BM 3/4" BSP (M)	6BM 1" BSP (M)	4MM M 20 x 1.5 (M)	XXX
3NM 3/8" NPT (M)	4NM 1/2" NPT (M)	5NM 3/4" NPT (M)	6NM 1" NPT (M)	6MM M 24 x 1.5 (M)	
3TM 3/8" BSPT (M)	4TM 1/2" BSPT (M)	5TM 3/4" BSPT (M)	6TM 1" BSPT (M)	7MM M 27 x 2 (M)	
3PM 3/8" G (M)	4FM 1/2" PF (M)	5FM 3/4" PF (M)	6FM 1" PF (M)	9MM M 33 x 2 (M)	
	4YM 1/2" R (M)	5YM 3/4" R (M)	6YM 1" R (M)		
	4PM 1/2" G (M)	5PM 3/4" 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



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

C1 Radiography for Bore Concentricity	C8 Certification for Hydrogen Service
C2 IBR Certification	C9 Certification for Oxygen Service
C3 Mechanical Test	T1 Chemical Composition Test
C4 Ultrasonic Test	T2 3.1B Material Conformity Certificate
C5 PMI Test	TF Conformity as per NACE Standard
C6 IGC Test	H1 Hydro Test
C7 Wake Frequency Calculations as per PTC 19.3*	

XX

* 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

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.