

TW7

Thermowell
Bar stock (Weld in / Socket weld)



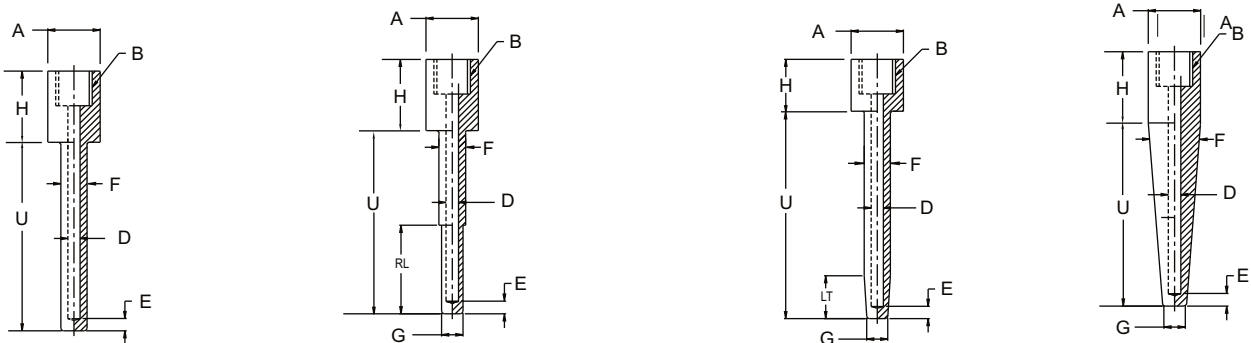
Special Features

- Design as per PTC 19.3
- These Thermowells are machined from solid bar stock and inserted into the process through direct welded attachment
- 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 and various exotic materials

Applications

- Chemical Plants
- Petrochemical Plants
- Engineering Plants
- On Shore
- Off Shore & Other Similar Process Industries

Thermowell Drawings



S - Straight

R - Straight Reduced Tip

P - Partial Taper

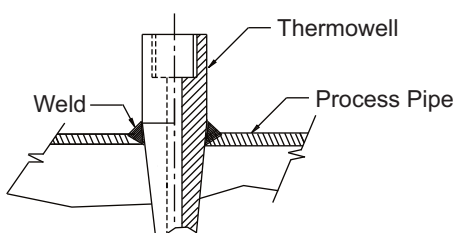
F - Full Taper

A - Finished Head Size
B - Instrument Connection
F - Major Diameter
D - Bore Diameter

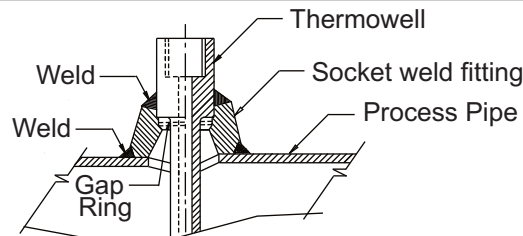
E - Tip Thickness
G - Major Diameter
U - Insertion Length
H - Extension Length

RL - Reduced Tip Length
LT - Taper Length

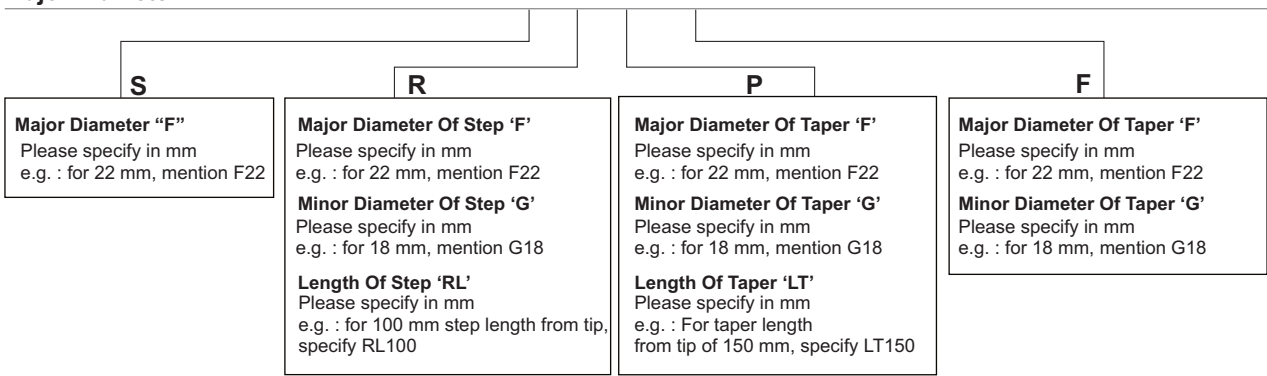
Typical Thermowell Installation



Weld in



Socket Weld

How To Order					Example
Basic Model					TW7
Type					
S - Straight	R - Straight Reduced Tipa	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					
4BF ½" BSP (F)	5TF ¾" BSPT (F)	6NF 1" NPT (F)	M18 M18 x 1.5 (F)	M24 M24 x 1.5 (F)	XXX
4NF ½" NPT (F)	5NF ¾" NPT (F)	6BF 1" BSP (F)	M20 M20 x 1.5 (F)	M27 M27 x 2 (F)	
4TF ½" BSPT (F)	5BF ¾" BSP (F)	6TF 1" BSPT (F)	M22 M22 x 1.5 (F)	M33 M33 x 2 (F)	
Note : Other Connections are available on request.					
Extension / Lagging Length "H"					
50 mm (Standard)					
Please specify in mm For e.g. : for length 50 mm, mention H50 (Refer Table 1.1 for selection of Head Size for Thermowell.)					XXX
Finished Head Size "A"					XXX
Please Specify in mm e.g. : For 28 mm Finished head Size, Specify A28					
Type Of Head					
H HEX HEADED*		R ROUND HEADED			X
*Maximum "U" Length below thread will be 250 mm.					
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"					
					XXX OR XXX OR XXXXX
<p>S</p> <p>Major Diameter "F" Please specify in mm e.g. : for 22 mm, mention F22</p>					
<p>R</p> <p>Major Diameter Of Step 'F' Please specify in mm e.g. : for 22 mm, mention F22</p> <p>Minor Diameter Of Step 'G' Please specify in mm e.g. : for 18 mm, mention G18</p> <p>Length Of Step 'RL' Please specify in mm e.g. : for 100 mm step length from tip, specify RL100</p>					
<p>P</p> <p>Major Diameter Of Taper 'F' Please specify in mm e.g. : for 22 mm, mention F22</p> <p>Minor Diameter Of Taper 'G' Please specify in mm e.g. : for 18 mm, mention G18</p> <p>Length Of Taper 'LT' Please specify in mm e.g. : For taper length from tip of 150 mm, specify LT150</p>					
<p>F</p> <p>Major Diameter Of Taper 'F' Please specify in mm e.g. : for 22 mm, mention F22</p> <p>Minor Diameter Of Taper 'G' Please specify in mm e.g. : for 18 mm, mention G18</p>					
Note : Refer Table 1.3 of Thermowell Design Procedure for dimensions as per PTC 19.3					

How To Order	Example
Tip Thickness “E” Standard Tip Thickness is 5 mm. e.g. : Specify E5 for 5 mm Tip Thickness. For others, please specify in mm.	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 ENM Marking by Engraving STG SS Tag Plate EPL Electro polishing LAM Marking by Lazer	XXX
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 Please Specify Fluid, Max. Pressure, Temperature & Flow velocity for wake frequency calculations as per PTC 19.3	XXX
Ordering Example: Tw7 . X . XXX . XXX . XXX . XXX . X . X . XXX OR XXX OR XXXXX . XX . XXXX . XXX . XXX	
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..