

BAR STOCK (SANITARY)

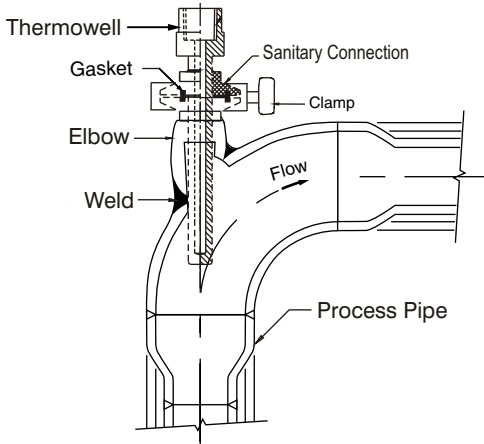
IPS-TW-06

Special Features

- Design as per PTC 19.3.
- These Thermowells are manufactured from solid bar stock and installed into the process by using clamp connection.
- The smooth and polished surface of the wetted parts helps for easy cleaning and prevents potential contamination of the process.
- 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.



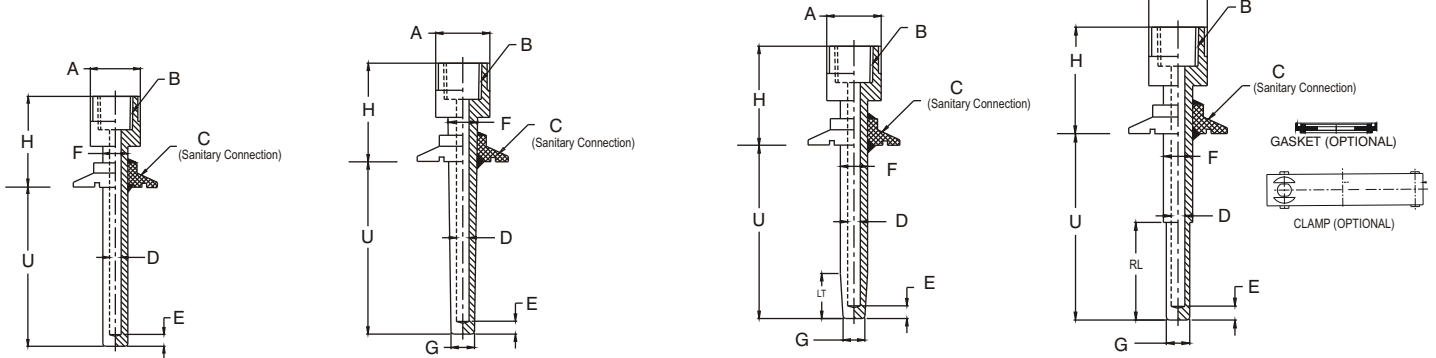
Thermowell Installation



Applications

Biochemical plants, Pharmaceutical Plants, Food and Beverage Industries, Sterile Process Industries & other similar process industries.

Thermowell Drawings



S - STRAIGHT

R - STRAIGHT REDUCED TIP

P - PARTIAL TAPER

F - FULL TAPER

A - Finished Head Size

E - Tip Thickness

U - Insertion Length

B - Instrument Connection

F - Major Diameter

RL - Reduced Tip Length

C - Sanitary Connection

G - Minor Diameter

LT - Taper Length

D - Bore Diameter

H - Extension Length

HOW TO ORDER

BASIC MODEL

IPS-TW-06

TYPE

S - STRAIGHT **R** - STRAIGHT REDUCED TIP **P** - PARTIAL TAPER **F** - FULL TAPER

X

MATERIAL

ER AISI 304 L SS **LM** AISI 316 SS **LN** AISI 316L SS

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INSTRUMENT CONNECTION "B"

3BF 3/8" BSP (F)	4BF 1/2" BSP (F)	5TF 3/4" BSPT (F)	3MF M18 x 1.5 (F)
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)	5BF 3/4" BSP (F)	5MF M22 x 1.5 (F)
3PF 3/8" G (F)	4FF 1/2" PF (F)	5PF 3/4" G (F)	6MF M24 x 1.5 (F)
	4PF 1/2" G (F)		

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Note : Other Connections are available on request.

SANITARY CONNECTION "C"

YN 1.5" Sanitary Connection **YO** 2" Sanitary Connection **YP** 2.5" Sanitary Connection

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FINISHED HEAD SIZE "A" (Refer Table 1.1 for selection of Head Size for Thermowell.)

Please Specify in mm

e.g. : For 28 mm Finished head Size, specify **A28**

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TYPE OF HEAD

K HEX HEADED* **M** ROUND HEADED WITH SPANNER SLOTS.

*Maximum "U" Length below Triclover will be 250 mm.

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EXTENSION / LAGGING LENGTH "H"

H50 (Standard)

For e.g. : for length 75 mm, mention **H75**

XXX

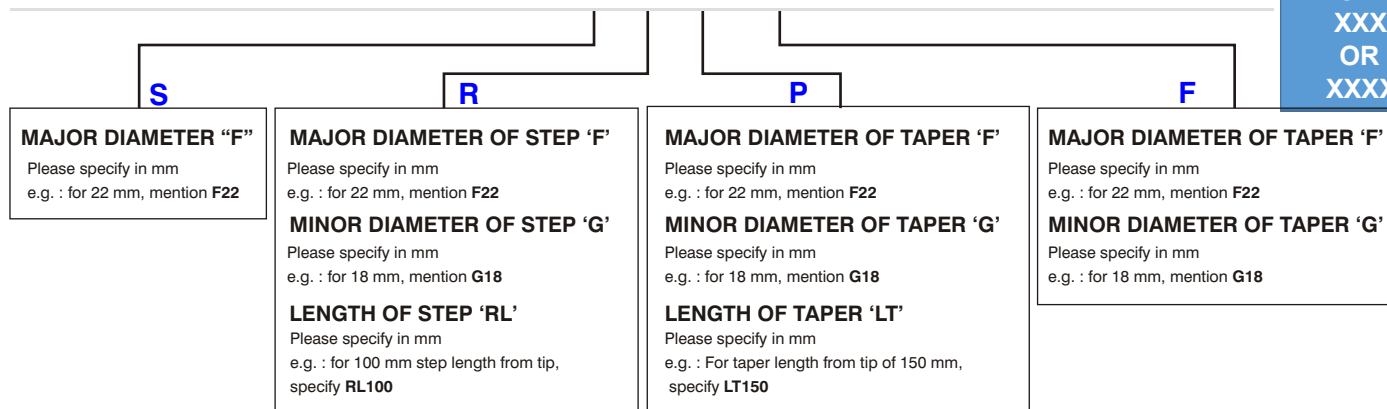
BORE DIAMETER "D"

A 6.6 mm **B** 7 mm **C** 8.5 mm **D** 9 mm
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

X

MAJOR DIAMETER "F"



XXX
OR
XXX
OR
XXXX

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

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THERMOWELL INSERTION LENGTH “U” (BELOW SANITARY CONNECTION)

Please specify in mm (e.g. : for 250 mm, mention **U250**)
 Note : Referable 1.4 of Thermowell Design Procedure for dimensions as per PT C 19.3

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OPTIONS

GG	Plug and chain in SS	SX	SS Tag Plate	CX	Marking by Engraving
FW	Electro polishing	CW	Marking by Lazer		

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SANITARY CLAMP

ZO	1.5” Clamp AISI 304 SS	ZP	2” Clamp AISI 304 SS	ZQ	2.5” Clamp AISI 304 SS
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GASKET

GX	1.5” PTFE Gasket	GY	2” PTFE Gasket	GZ	2.5” PTFE Gasket
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TESTS & CERTIFICATION

C1	Radiography for Bore Concentricity	T1	Chemical Composition Test
C4	Ultrasonic Test	T2	3.1B Material Conformity Certificate
C5	PMI Test	T4	Dye Penetration Test
C7	Wake Frequency Calculations as per PTC 19.3*		
C9	Certification for Oxygen Service		

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

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.



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