

FEATURES

- Solid bar-stock drilled design
- 3 different shank styles
- Flanged process connection

APPLICATION

- Air & flue gas
- Tanks & vessels
- Oil & Gas applications
- Corrosive environments
- Power & Steel industries
- HVAC, Air filters & utilities
- On-shore/Off-shore application

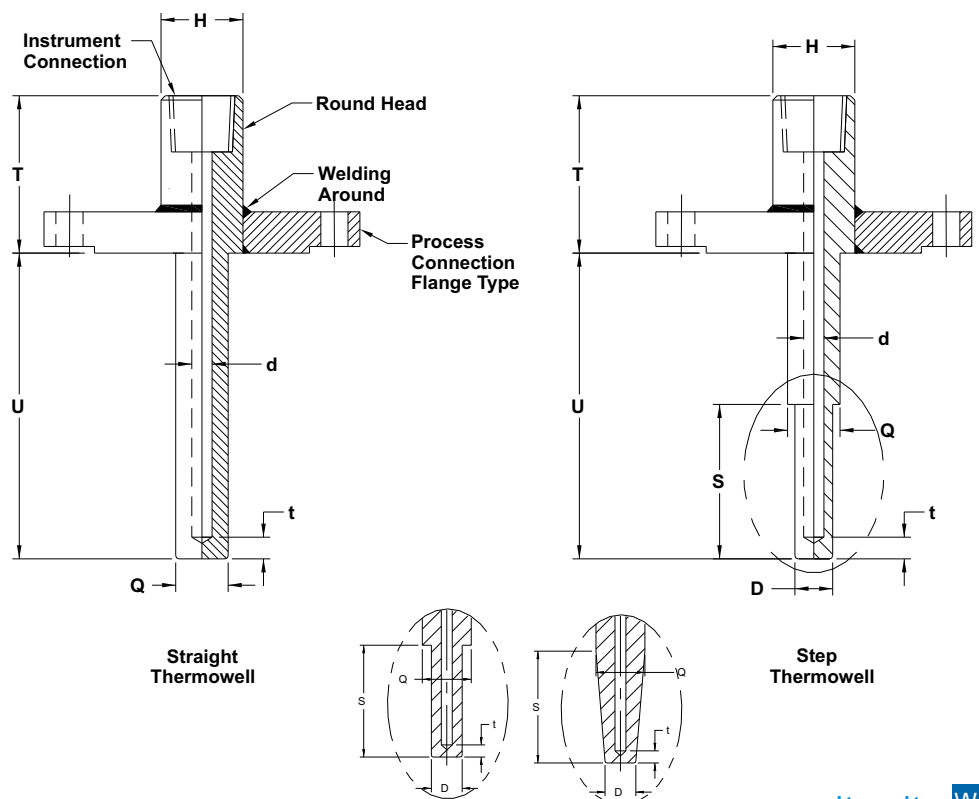
Bar-stock



STANDARD SPECIFICATIONS

Shank form	:	Taper
Flange material	:	AISI 316 SS
Well material	:	AISI 316 SS
Instrument connection	:	1/2" NPT (F) / 1/2" BSP (F)
Bore diameter	:	6.6 mm
Lag extension	:	50 mm
Root diameter	:	25.0 mm
Tip diameter	:	18.0 mm
Immersion length	:	150 mm
Step / Taper Length	:	150 mm
Tip thickness	:	5 mm
Process connection	:	Flange as per ANSI B16.5, EN 1092-1, JIS, etc.
Flange facing type	:	Raised face
Head type	:	Round
Head size	:	30 mm

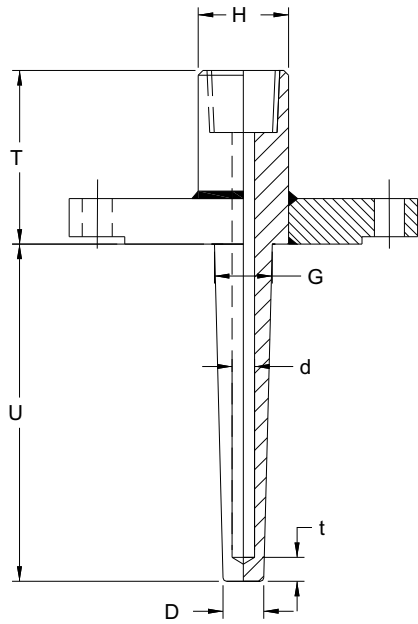
DIMENSIONAL DRAWING



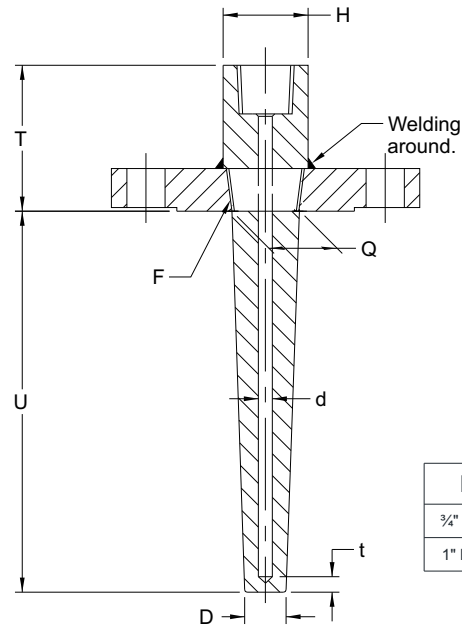
REFERENCE

ASME PTC 19.3TW:2010

DIMENSIONAL DRAWING



Taper Thermowell



F	Flange size
3/4" NPT	1" and below
1" NPT	1 1/2" and above

E.g. : "FB = Flange & well thread jointed and seal welded"

ORDERING CODES

1. SHANK FORM

S	Straight	E	Stepped
T	Tapered		

S

2. FLANGE MATERIAL

MB	Carbon Steel / ASTM A105	ME	AISI 310 SS
MC	AISI 304SS	MG	AISI 316L SS
MF	AISI 316 SS	MN	Monel K-500
MM	Monel 400	MQ	Inconel 600
MO	Hastelloy C-276	MS	Inconel 800
MR	Inconel 625	MV	Titanium
MT	Inconel 825	M6	AISI 446 SS
MY	Alloy 20		
MI	AISI 321 SS		

MB

3. WELL MATERIAL

MB	Carbon Steel / ASTM A105	ME	AISI 310 SS
MC	AISI 304SS	MG	AISI 316L SS
MF	AISI 316 SS	MN	Monel K-500
MM	Monel 400	MQ	Inconel 600
MO	Hastelloy C-276	MS	Inconel 800
MR	Inconel 625	MV	Titanium
MT	Inconel 825	M6	AISI 446 SS
MY	Alloy 20		
MI	AISI 321 SS		

MB

4. INSTRUMENT CONNECTION

02N	1/4" NPT (F)	04N	1/2" NPT (F)
05N	3/4" NPT (F)	02B	1/4" BSP (F)
04B	1/2" BSP (F)	05B	3/4" BSP (F)
04M	M20 x 1.5 mm (F)		

04N

5. PROCESS CONNECTION

XXX Refer Flange Table for the codes

XXX

6. FLANGE FACING

F	Flat Face
J	Ring-Type Joint
R	Raised Face

F

7. HEAD TYPE

R Round

R

8. HEAD SIZE

XX Mention in 'mm'

30

Recommended :
30 mm for flanges up to 1.5" sizes
35 mm for flanges above 1.5" sizes

NOTES:

- Other diameters, connections are available, please contact factory for details.
- Please refer "Technical Reference" for the proper selection of connections according to Head size and Outer diameter of the well.

ORDERING CODES

9. LAG EXTENSION ("T")		50	18. COATING ON WELL & FLANGE		XX		
XXX	35 mm up to 250 mm		PD	PTFE			
10. ROOT DIAMETER ("Q")		25	PE	Silicon carbide	XX		
XX.X	Mention in 'mm'		PG	Tungsten carbide			
11. TIP DIAMETER ("D")		18	PH	Zirconium oxide			
XX.X	Mention in 'mm'		PI	Stellite			
12. BORE DIAMETER ("d")		A	19. SLEEVING/OVERLAY ON WELL & FLANGE			XX	
N	6.35 mm (1/4")		A	6.6 mm	PS		Hastelloy C-276
B	7.0 mm		C	9.0 mm	PV		Inconel 600
D	9.6 mm		O	10 mm	PW		Titanium
F	11 mm		G	13 mm	PX		Tantalum
13. IMMERSION LENGTH ("U")			150	20. OTHER OPTIONS			XM
XXXX	50 mm up to 1000 mm	XI		Plug & chain in SS			
14. STEP STYLE		S	XK	Electro polishing			
S	Straight		XL	Marking by laser			
T	Taper		XM	Marking by engraving			
15. STEP / TAPER LENGTH ("S")		150	21. CERTIFICATIONS		TC		
XXX	Mention in 'mm'		TC	Material test certificate 3.1			
16. TIP THICKNESS ("t")		M	TD	Dye penetration test			
M	5 mm		TF	PMI test			
N	6.35 mm (1/4")		TG	IGC test			
O	10 mm		TH	Hydro test certificate			
17. CONSTRUCTION		FC	TI	IBR certification			
FA	Flange & well full penetration welded		TM	Material test certificate 2.2			
FB	Flange & well thread jointed and seal welded		TN	Tested to NACE standards			
FC	Flange & well seal welded		TQ	Certification for Hydrogen service			
			TW	WFC as per PTC 19.3TW:2010			
			TR	Radiography for welding			
			TS	Radiography for bore concentricity			
			TU	Ultrasonic test			

Ordering Example : W104-S-MB-MB-02N-XXX-F-R-30-50-25-18-A-150-S-150-M-XM-TC

NOTES:

1. Other diameters, connections are available, please contact factory for details.
2. Please refer "Technical Reference" for the proper selection of connections according to Head size and Outer diameter of the well.