

## FEATURES

- Economical version
- Fabricated from pipe
- Threaded process connection

## APPLICATION

- HVAC, Air filters & utilities
- Tanks & vessels

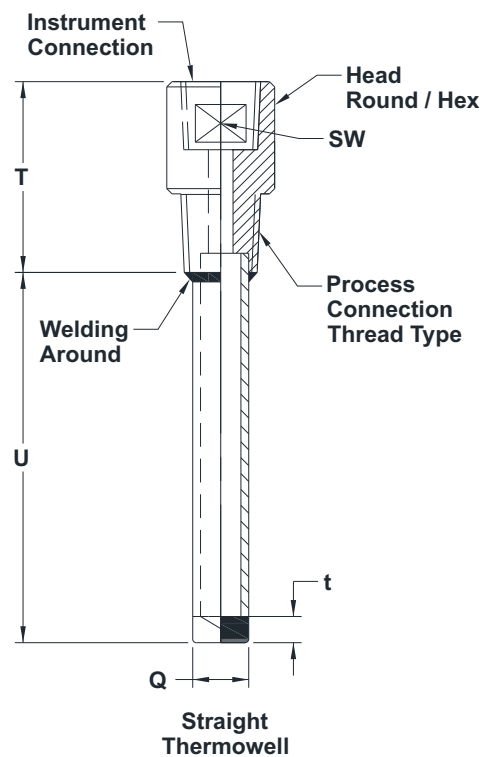
### Fabricated



### STANDARD SPECIFICATIONS

Shank form	:	Straight
Head Material	:	AISI 316 SS
Well Material	:	AISI 316 SS
Instrument connection	:	1/2" NPT (F) / 1/2" BSP (F)
Well Tubes	:	Tube Ø10 x 1.5 mm THK
Lag extension	:	50 mm
Immersion length	:	100 mm
Tip thickness	:	5 mm
Process connection	:	1/2" NPT (M) / 1/2" BSP (M)
Head type	:	Hex
Head size	:	27 mm

### DIMENSIONAL DRAWING



## ORDERING CODES

## 1. SHANK FORM

**S** Straight

## 2. HEAD MATERIAL

<b>MC</b> AISI 304SS	<b>ME</b> AISI 310 SS
<b>MF</b> AISI 316 SS	<b>MG</b> AISI 316L SS
<b>MI</b> AISI 321 SS	<b>M6</b> AISI 446 SS
<b>MQ</b> Inconel 600	<b>MR</b> Inconel 625
<b>MS</b> Inconel 800	<b>MT</b> Inconel 825
<b>MO</b> Hastelloy C-276	

## 3. WELL MATERIAL

<b>MC</b> AISI 304SS	<b>ME</b> AISI 310 SS
<b>MF</b> AISI 316 SS	<b>MG</b> AISI 316L SS
<b>MI</b> AISI 321 SS	<b>M6</b> AISI 446 SS
<b>MQ</b> Inconel 600	<b>MR</b> Inconel 625
<b>MS</b> Inconel 800	<b>MT</b> Inconel 825
<b>MO</b> Hastelloy C-276	

## 4. INSTRUMENT CONNECTION

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

## 5. PROCESS CONNECTION

<b>14N</b> 1/2" NPT (M)	<b>15N</b> 3/4" NPT (M)
<b>16N</b> 1" NPT (M)	<b>17N</b> 1.5" NPT (M)
<b>18N</b> 2" NPT (M)	<b>14B</b> 1/2" BSP (M)
<b>15B</b> 3/4" BSP (M)	<b>16B</b> 1" BSP (M)
<b>17B</b> 1.5" BSP (M)	<b>18B</b> 2" BSP (M)
<b>14M</b> M20 x 1.5 mm (M)	

## 6. HEAD TYPE

**H** Hex (up to Immersion length 250 mm)  
**L** Round with spanner slot

## 7. HEAD SIZE

**XX** Mention in 'mm'

## 8. LAG EXTENSION ("T")

**XXX** 35 mm up to 250 mm

## 9. WELL (PIPE)

**U3** Pipe 3/8" Sch 40  
**U4** Pipe 3/8" Sch 80  
**U5** Pipe 1/2" Sch 40  
**U6** Pipe 1/2" Sch 80  
**U7** Pipe 3/4" Sch 40  
**U8** Pipe 3/4" Sch 80  
**UA** Pipe 1/4" Sch 40  
**UB** Pipe 1/4" Sch 80  
**UC** Pipe 1/2" Sch 160  
**UD** Pipe 3/4" Sch 160

## 9. WELL (TUBE) OR

**U1** Tube Ø10 x 1.5 mm THK  
**UL** Tube Ø12 x 2.5 mm THK  
**UM** Tube Ø14 x 2.5 mm THK  
**UN** Tube Ø12 x 1.0 mm THK  
**UO** Tube Ø14 x 1.0 mm THK  
**UP** Tube Ø16 x 2.0 mm THK

## 10. IMMERSION LENGTH ("U")

**XXXX** 50 mm up to 1000 mm

## 11. TIP THICKNESS ("t")

**M** 5 mm  
**N** 6.35 mm (1/4")  
**O** 10 mm

## 12. OTHER OPTIONS

**XI** Plug & chain in SS  
**XM** Marking by engraving  
**TC** Material test certificate 3.1  
**TD** Dye penetration test  
**TM** Material test certificate 2.2  
**TH** Hydro test certificate

Ordering Example : W101-S-MC-MC-02N-14N-H-27-50-U1-100-M-XM

## NOTES:

1. Other pipe/tube sizes, "U" lengths, connections are available. please contact factory for details.

2. Please refer "Technical Guidance Sheet" for the proper selection of connections according to Head size and Outer diameter of the well.

## FEATURES

- Solid bar-stock drilled design
- 3 different shank styles
- Threaded 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

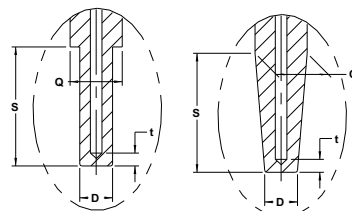
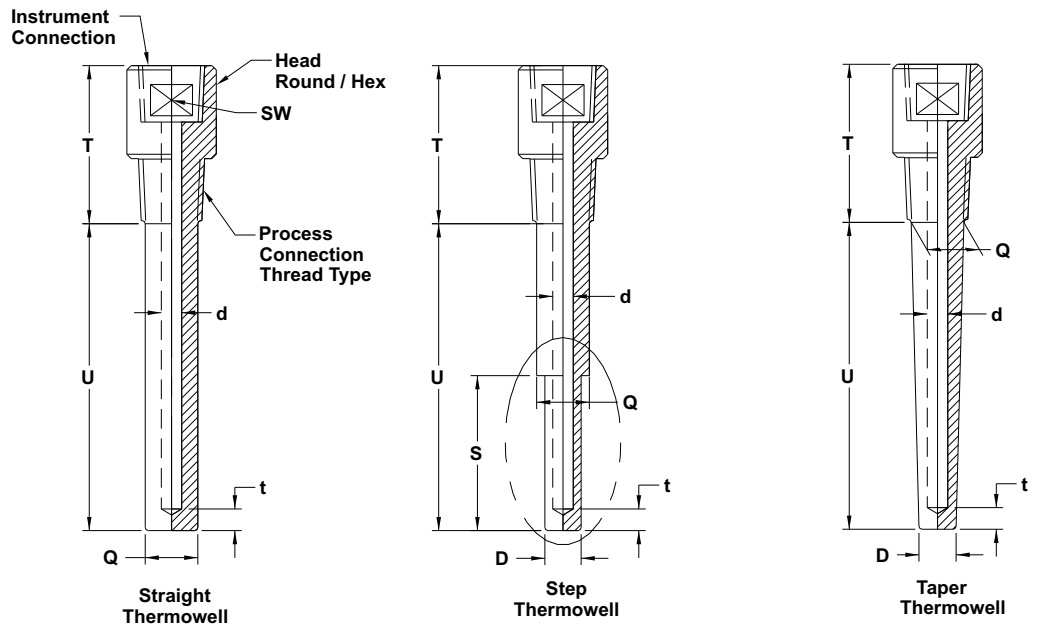
### Bar-stock



### STANDARD SPECIFICATIONS

Shank form	:	Straight
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	:	21.0 mm
Tip diameter	:	21.0 mm
Immersion length	:	100 mm
Tip thickness	:	5 mm
Process connection	:	3/4" NPT (M) / 3/4" BSP (M)
Head type	:	Hex
Head size	:	27 mm

### DIMENSIONAL DRAWING



## REFERENCE

ASME PTC 19.3TW:2010

ORDERING CODES

1. SHANK FORM

<b>S</b>	Straight	<b>E</b>	Stepped
<b>T</b>	Tapered		

S

2. MATERIAL

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

MB

3. INSTRUMENT CONNECTION

<b>02N</b>	1/4" NPT (F)	<b>04N</b>	1/2" NPT (F)
<b>05N</b>	3/4" NPT (F)	<b>06N</b>	1" NPT (F)
<b>02B</b>	1/4" BSP (F)	<b>04B</b>	1/2" BSP (F)
<b>05B</b>	3/4" BSP (F)	<b>06B</b>	1" BSP (F)
<b>04M</b>	M20 x 1.5 mm (F)		

02N

4. PROCESS CONNECTION

<b>14N</b>	1/2" NPT (M)	<b>15N</b>	3/4" NPT (M)
<b>16N</b>	1" NPT (M)	<b>17N</b>	1.5" NPT (M)
<b>18N</b>	2" NPT (M)	<b>14B</b>	1/2" BSP (M)
<b>15B</b>	3/4" BSP (M)	<b>16B</b>	1" BSP (M)
<b>17B</b>	1.5" BSP (M)	<b>18B</b>	2" BSP (M)
<b>14M</b>	M20 x 1.5 mm (M)		

14N

5. HEAD TYPE

<b>H</b>	Hex
<b>L</b>	Round with spanner slot

H

6. HEAD SIZE

<b>XX</b>	Mention in 'mm'
-----------	-----------------

27

7. LAG EXTENSION ("T")

<b>XXX</b>	35 mm up to 250 mm
------------	--------------------

50

8. ROOT DIAMETER ("D")

<b>XX.X</b>	Mention in 'mm'
-------------	-----------------

21

9. TIP DIAMETER ("D")

<b>XX.X</b>	Mention in 'mm'
-------------	-----------------

21

10. BORE DIAMETER ("d")

<b>A</b>	6.6 mm	<b>C</b>	9.0 mm
<b>D</b>	9.6 mm	<b>F</b>	11 mm
<b>G</b>	13 mm		

A

11. IMMERSION LENGTH ("U")

<b>XXXX</b>	50 mm up to 1000 mm
-------------	---------------------

100

12. STEP STYLE

<b>S</b>	Straight
<b>T</b>	Taper

X

13. STEP / TAPER LENGTH ("S")

<b>XXX</b>	Mention in 'mm'
------------	-----------------

XXX

14. TIP THICKNESS ("t")

<b>M</b>	5 mm	<b>N</b>	6.35 mm (1/4")
<b>O</b>	10 mm		

M

15. OTHER OPTIONS

<b>XI</b>	Plug & chain in SS
<b>XK</b>	Electro polishing
<b>XL</b>	Marking by laser
<b>XM</b>	Marking by engraving
<b>TC</b>	Material test certificate 3.1
<b>TG</b>	IGC test
<b>TH</b>	Hydro test certificate
<b>TI</b>	IBR certification
<b>TM</b>	Material test certificate 2.2
<b>TN</b>	Tested to NACE standards
<b>TW</b>	WFC as per PTC 19.3TW:2010
<b>TS</b>	Radiography for bore concentricity
<b>TU</b>	Ultrasonic test

XM

Ordering Example : W102-S-MB-02N-14N-H-27-50-21-21-A-100-M-XM

NOTES:

1. Other pipe/tube sizes, "U" lengths, connections are available. please contact factory for details.
2. Please refer "Technical Guidance Sheet" for the proper selection of connections according to Head size and Outer diameter of the well.

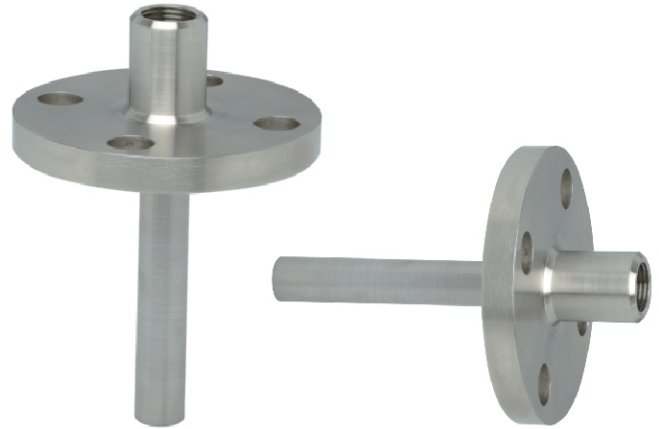
## FEATURES

- Economical version
- Fabricated from pipe
- Flanged process connection

## APPLICATION

- HVAC, Air filters & utilities
- Tanks & vessels

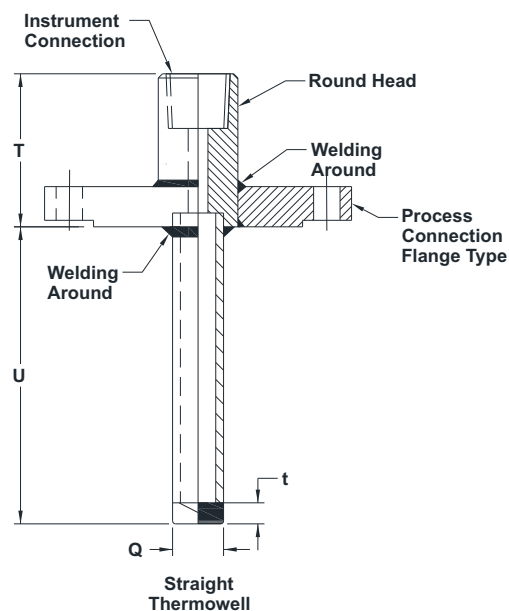
Fabricated



### STANDARD SPECIFICATIONS

Shank form	:	Straight
Flange material	:	AISI 316 SS
Well material	:	AISI 316 SS
Instrument connection	:	1/2" NPT (F) / 1/2" BSP (F)
Well Tubes	:	Pipe 1/2" Sch 40
Lag extension	:	50 mm
Immersion length	:	100 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	:	27 mm

### DIMENSIONAL DRAWING



## ORDERING CODES

## 1. SHANK FORM

**S** Straight

## 2. FLANGE MATERIAL

**MB** Carbon Steel / ASTM A105  
**MC** AISI 304SS      **ME** AISI 310 SS  
**MF** AISI 316 SS      **MG** AISI 316L SS  
**MI** AISI 321 SS      **M6** AISI 446 SS  
**MQ** Inconel 600      **MR** Inconel 625  
**MS** Inconel 800      **MT** Inconel 825  
**MO** Hastelloy C-276

## 3. WELL MATERIAL

**MB** Carbon Steel / ASTM A105  
**MC** AISI 304SS      **ME** AISI 310 SS  
**MF** AISI 316 SS      **MG** AISI 316L SS  
**MI** AISI 321 SS      **M6** AISI 446 SS  
**MQ** Inconel 600      **MR** Inconel 625  
**MS** Inconel 800      **MT** Inconel 825  
**MO** Hastelloy C-276

## 4. INSTRUMENT CONNECTION

**02N** 1/4" NPT (F)      **04N** 1/2" NPT (F)  
**05N** 3/4" NPT (F)      **06N** 1" NPT (F)  
**02B** 1/4" BSP (F)      **04B** 1/2" BSP (F)  
**05B** 3/4" BSP (F)      **06B** 1" BSP (F)  
**04M** M20 x 1.5 mm (F)

## 5. PROCESS CONNECTION

**XXX** Refer Flange Table for the codes

## 6. FLANGE FACING

**F** Flat Face  
**J** Ring-Type Joint  
**R** Raised Face

## 7. HEAD TYPE

**R** Round

## 8. HEAD SIZE

**XX** Mention in 'mm'

## 9. LAG EXTENSION ("T")

**XXX** 35 mm up to 250 mm

## 10. WELL PIPES

**U3** Pipe 3/8" Sch 40  
**U4** Pipe 3/8" Sch 80  
**U5** Pipe 1/2" Sch 40  
**U6** Pipe 1/2" Sch 80  
**U7** Pipe 3/4" Sch 40  
**U8** Pipe 3/4" Sch 80  
**UA** Pipe 1/4" Sch 40  
**UB** Pipe 1/4" Sch 80

OR

## 10. WELL TUBES

**U1** Tube Ø10 x 1.5 mm THK  
**UL** Tube Ø12 x 2.5 mm THK  
**UM** Tube Ø14 x 2.5 mm THK  
**UN** Tube Ø12 x 1.0 mm THK  
**UO** Tube Ø14 x 1.0 mm THK  
**UP** Tube Ø16 x 2.0 mm THK

## 11. IMMERSION LENGTH ("U")

**XXXX** 50 mm up to 1000 mm

## 12. TIP THICKNESS ("t")

**M** 5 mm  
**N** 6.35 mm (1/4")  
**O** 10 mm

## 13. COATING ON WELL &amp; FLANGE

**PD** PTFE  
**PE** Silicon carbide  
**PG** Tungsten carbide  
**PH** Zirconium oxide  
**PI** Stellite

## 14. SLEEVING/OVERLAY ON WELL &amp; FLANGE

**PS** Hastelloy C-276  
**PV** Inconel 600  
**PW** Titanium  
**PX** Tantalum

## 15. OTHER OPTIONS

**XI** Plug & chain in SS  
**XL** Marking by laser  
**XM** Marking by engraving  
**TC** Material test certificate 3.1  
**TD** Dye penetration test  
**TH** Hydro test certificate  
**TM** Material test certificate 2.2

**Ordering Example : W103-S-MB-MB-02N-XXX-F-R-27-50-U5-100-M-XM**

## NOTES:

1. Other diameters, connections are available, please contact factory for details.

2. Please refer "Technical Guidance Sheet" for the proper selection of connections according to Head size and Outer diameter of the well.

## 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

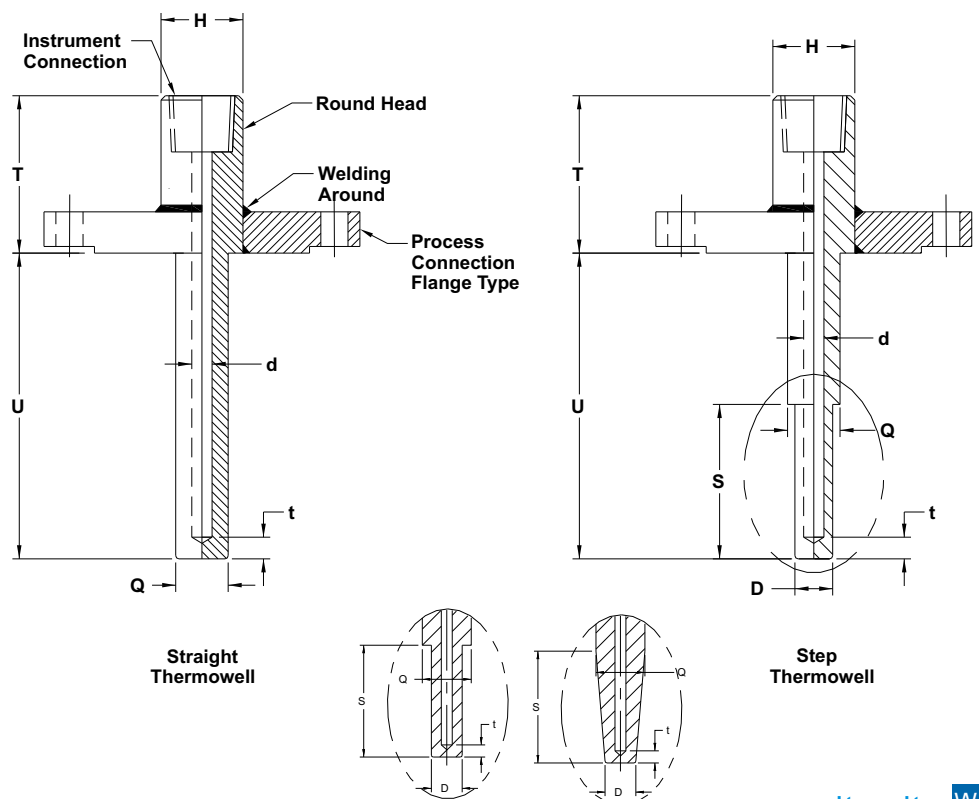
### Bar-stock



### 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

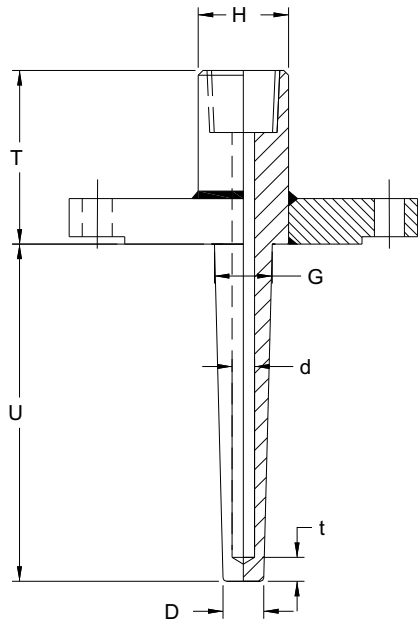
### DIMENSIONAL DRAWING



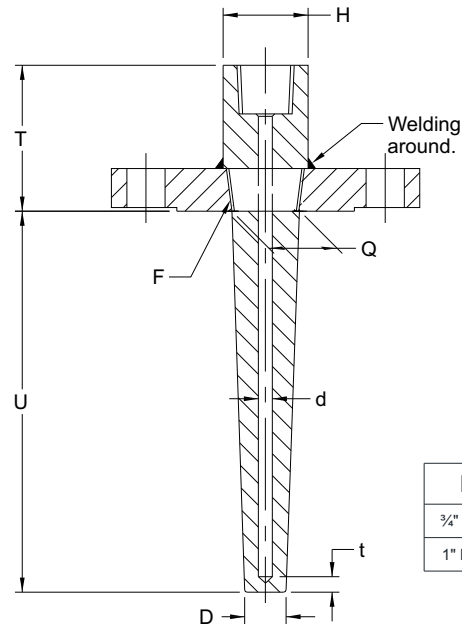
## REFERENCE

ASME PTC 19.3TW:2010

DIMENSIONAL DRAWING



Taper Thermowell



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

ORDERING CODES

1. SHANK FORM

<b>S</b>	Straight	<b>E</b>	Stepped
<b>T</b>	Tapered		

S

2. FLANGE MATERIAL

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

MB

3. WELL MATERIAL

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

MB

4. INSTRUMENT CONNECTION

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

04N

5. PROCESS CONNECTION

**XXX** Refer Flange Table for the codes

XXX

6. FLANGE FACING

<b>F</b>	Flat Face
<b>J</b>	Ring-Type Joint
<b>R</b>	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**

<b>9. LAG EXTENSION ("T")</b>		50	<b>18. COATING ON WELL &amp; FLANGE</b>		XX		
XXX	35 mm up to 250 mm		PD	PTFE			
<b>10. ROOT DIAMETER ("Q")</b>		25	PE	Silicon carbide	XX		
XX.X	Mention in 'mm'		PG	Tungsten carbide			
<b>11. TIP DIAMETER ("D")</b>		18	PH	Zirconium oxide			
XX.X	Mention in 'mm'		PI	Stellite			
<b>12. BORE DIAMETER ("d")</b>		A	<b>19. SLEEVING/OVERLAY ON WELL &amp; FLANGE</b>			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
<b>13. IMMERSION LENGTH ("U")</b>			150	<b>20. OTHER OPTIONS</b>			XM
XXXX	50 mm up to 1000 mm	XI		Plug & chain in SS			
<b>14. STEP STYLE</b>		S	XK	Electro polishing			
S	Straight		XL	Marking by laser			
T	Taper		XM	Marking by engraving			
<b>15. STEP / TAPER LENGTH ("S")</b>		150	<b>21. CERTIFICATIONS</b>		TC		
XXX	Mention in 'mm'		TC	Material test certificate 3.1			
<b>16. TIP THICKNESS ("t")</b>		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			
<b>17. CONSTRUCTION</b>		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.

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## FEATURES

- Solid bar-stock drilled design
- 3 different shank styles
- Flanged process connection
- RF portion with exotic material

## APPLICATION

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

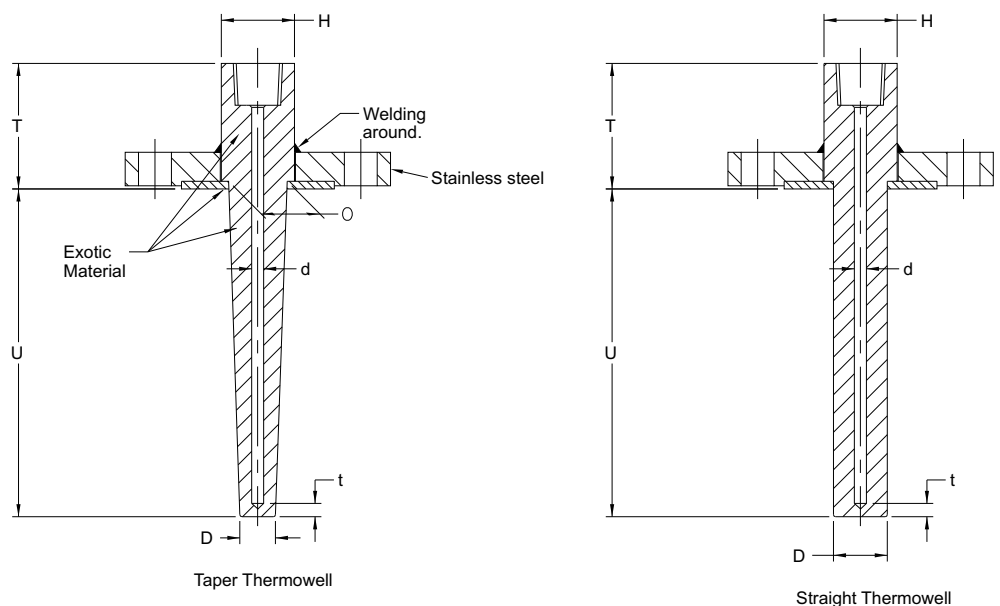
Bar-stock with exotic material RF



### 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

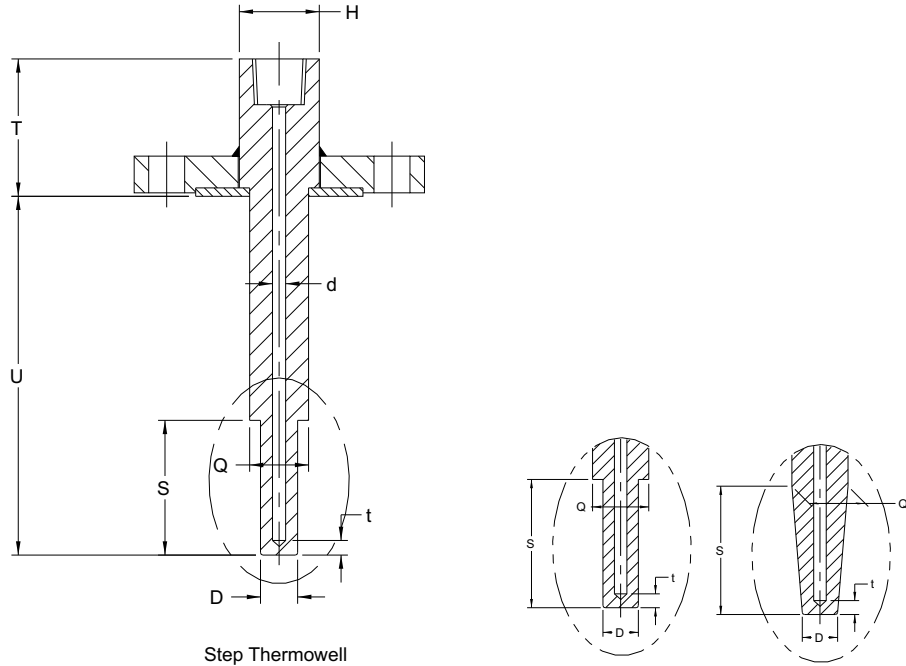
### DIMENSIONAL DRAWING



## REFERENCE

ASME PTC 19.3TW:2010

DIMENSIONAL DRAWING



ORDERING CODES

<b>1. SHANK FORM</b>		<b>S</b>
<b>S</b> Straight	<b>E</b> Stepped	
<b>T</b> Tapered		
<b>2. FLANGE MATERIAL</b>		<b>MB</b>
<b>MC</b> AISI 304SS	<b>MF</b> AISI 316 SS	
<b>MG</b> AISI 316L SS		
<b>3. WELL &amp; FLANGE RF MATERIAL</b>		<b>MB</b>
<b>ME</b> AISI 310 SS	<b>MI</b> AISI 321 SS	
<b>M6</b> AISI 446 SS	<b>MM</b> Monel 400	
<b>MN</b> Monel K-500	<b>MY</b> Alloy 20	
<b>MO</b> Hastelloy C-276	<b>MQ</b> Inconel 600	
<b>MR</b> Inconel 625	<b>MS</b> Inconel 800	
<b>MT</b> Inconel 825	<b>MV</b> Titanium	
<b>4. INSTRUMENT CONNECTION</b>		<b>04N</b>
<b>02N</b> 1/4" NPT (F)	<b>04N</b> 1/2" NPT (F)	
<b>05N</b> 3/4" NPT (F)	<b>02B</b> 1/4" BSP (F)	
<b>04B</b> 1/2" BSP (F)	<b>05B</b> 3/4" BSP (F)	
<b>04M</b> M20 x 1.5 mm (F)		
<b>5. PROCESS CONNECTION</b>		<b>XXX</b>
<b>XXX</b> Refer Flange Table for the codes		

<b>6. FLANGE FACING</b>		<b>F</b>
<b>F</b> Flat Face		
<b>J</b> Ring-Type Joint		
<b>R</b> Raised Face		
<b>7. HEAD TYPE</b>		<b>R</b>
<b>R</b> Round		
<b>8. HEAD SIZE</b>		<b>30</b>
<b>XX</b> Mention in 'mm'		
Recommended :		
30 mm for flanges up to 1.5" sizes		
35 mm for flanges above 1.5" sizes		
<b>9. LAG EXTENSION ("T")</b>		<b>50</b>
<b>XXX</b> 35 mm up to 250 mm		
<b>10. ROOT DIAMETER ("Q")</b>		<b>25</b>
<b>XX.X</b> Mention in 'mm'		
<b>11. TIP DIAMETER ("D")</b>		<b>18</b>
<b>XX.X</b> Mention in 'mm'		

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

## 12. BORE DIAMETER ("d")

<b>N</b>	6.35 mm (1/4")	<b>A</b>	6.6 mm
<b>B</b>	7.0 mm	<b>C</b>	9.0 mm
<b>D</b>	9.6 mm	<b>O</b>	10 mm
<b>F</b>	11 mm	<b>G</b>	13 mm

A

## 13. IMMERSION LENGTH ("U")

XXXX 50 mm up to 1000 mm

150

## 14. STEP STYLE

<b>S</b>	Straight
<b>T</b>	Taper

S

## 15. STEP / TAPER LENGTH ("S")

XXX Mention in 'mm'

150

## 16. TIP THICKNESS ("t")

<b>M</b>	5 mm
<b>N</b>	6.35 mm (1/4")
<b>O</b>	10 mm

M

## 17. OTHER OPTIONS

<b>XI</b>	Plug & chain in SS
<b>XK</b>	Electro polishing
<b>XL</b>	Marking by laser
<b>XM</b>	Marking by engraving

XM

## 18. CERTIFICATIONS

<b>TC</b>	Material test certificate 3.1
<b>TD</b>	Dye penetration test
<b>TF</b>	PMI test
<b>TG</b>	IGC test
<b>TH</b>	Hydro test certificate
<b>TI</b>	IBR certification
<b>TM</b>	Material test certificate 2.2
<b>TN</b>	Tested to NACE standards
<b>TQ</b>	Certification for Hydrogen service
<b>TW</b>	WFC as per PTC 19.3TW:2010
<b>TR</b>	Radiography for welding
<b>TS</b>	Radiography for bore concentricity
<b>TU</b>	Ultrasonic test

TC

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

## 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.

## FEATURES

- Van-stone design
- Single piece forged drilled
- Or single piece bar-stock drilled
- Flange RF connection

## APPLICATION

- Oil & Gas applications
- Corrosive environments
- On-shore/Off-shore application

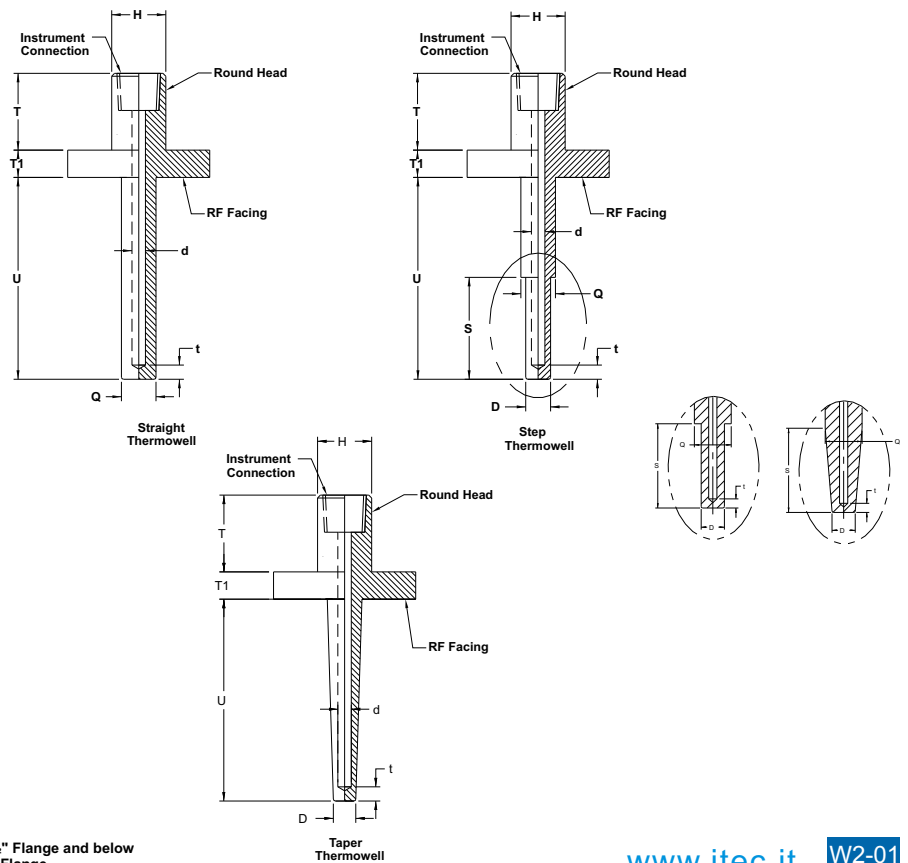
Forged / Bar-stock



### STANDARD SPECIFICATIONS

Shank form	: Tapered
Material	: AISI 316 SS
Instrument connection	: 1/2" NPT (F) / 1/2" BSP (F)
Bore diameter	: 6.6 mm
Lag extension	: 40 mm
Root diameter	: 30.0 mm
Tip diameter	: 14.0 mm
Immersion length	: 255 mm
Step / Taper Length	: 255 mm
Tip thickness	: 5 mm
Process connection	: 1 1/2" RF Diameter
Flange facing type	: Raised face
Head type	: Round
Head size	: 48 mm

### DIMENSIONAL DRAWING



## REFERENCE

ASME PTC 19.3TW:2010

Note :-  
 T1=15mm for 1 1/2" Flange and below  
 T1=20mm for 2" Flange

ORDERING CODES

1. SHANK FORM

<b>S</b>	Straight	<b>E</b>	Stepped
<b>T</b>	Tapered		

2. MATERIAL

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

3. INSTRUMENT CONNECTION

<b>02N</b>	1/4" NPT (F)	<b>04N</b>	1/2" NPT (F)
<b>05N</b>	3/4" NPT (F)	<b>06N</b>	1" NPT (F)
<b>02B</b>	1/4" BSP (F)	<b>04B</b>	1/2" BSP (F)
<b>05B</b>	3/4" BSP (F)	<b>06B</b>	1" BSP (F)
<b>04M</b>	M20 x 1.5 mm (F)		

4. PROCESS CONNECTION / FACING SIZE

<b>0</b>	1" RF diameter as per AISI B16.5
<b>1</b>	1 1/2" RF diameter as per AISI B16.5
<b>2</b>	2" RF diameter as per AISI B16.5

5. RF FACING

<b>J</b>	Ring-Type Joint
<b>R</b>	Raised Face

6. HEAD TYPE

<b>R</b>	Round
----------	-------

7. HEAD SIZE

<b>XX</b>	48 mm (Standard)
-----------	------------------

8. LAG EXTENSION ("T")

<b>XXX</b>	35 mm up to 250 mm
------------	--------------------

9. ROOT DIAMETER ("Q")

<b>XX.X</b>	Mention in 'mm'
-------------	-----------------

10. TIP DIAMETER ("D")

<b>XX.X</b>	Mention in 'mm'
-------------	-----------------

11. BORE DIAMETER ("d")

<b>N</b>	6.35 mm (1/4")	<b>A</b>	6.6 mm
<b>C</b>	9.0 mm	<b>D</b>	9.6 mm
<b>O</b>	10 mm	<b>F</b>	11 mm

12. IMMERSION LENGTH ("U")

<b>XXX</b>	50 mm up to 1000 mm
------------	---------------------

13. STEP STYLE

<b>S</b>	Straight
<b>T</b>	Taper

14. STEP / TAPER LENGTH ("S")

<b>XXX</b>	Mention in 'mm'
------------	-----------------

15. TIP THICKNESS ("t")

<b>M</b>	5 mm
<b>N</b>	6.35 mm (1/4")
<b>O</b>	10 mm

16. OTHER OPTIONS

<b>XI</b>	Plug & chain in SS
<b>XK</b>	Electro polishing
<b>XL</b>	Marking by laser
<b>XM</b>	Marking by engraving
<b>TC</b>	Material test certificate 3.1
<b>TD</b>	Dye penetration test
<b>TF</b>	PMI test
<b>TG</b>	IGC test
<b>TH</b>	Hydro test certificate
<b>TI</b>	IBR certification
<b>TM</b>	Material test certificate 2.2
<b>TN</b>	Tested to NACE standards
<b>TP</b>	Performance test certificate
<b>TW</b>	WFC as per PTC 19.3TW:2010
<b>TR</b>	Radiography for welding
<b>TS</b>	Radiography for bore concentricity
<b>TU</b>	Ultrasonic test

Ordering Example : W201-T-02N-1-R-R-48-30-14-A-255-S-255-N-XM

NOTES:

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

## FEATURES

- Sanitary design
- Solid bar-stock drilled

## APPLICATION

- Biochemical & pharmaceutical
- Food & beverages
- Sterile process industries

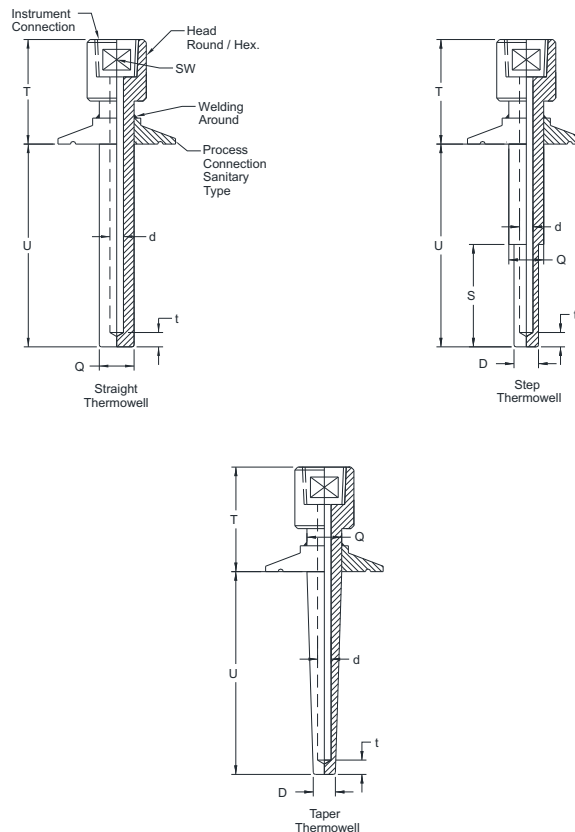
### Bar-stock



### STANDARD SPECIFICATIONS

Shank form	:	Straight
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	:	21.0 mm
Tip diameter	:	21.0 mm
Immersion length	:	150 mm
Step / Taper Length	:	150 mm
Tip thickness	:	5 mm
Process connection	:	1 1/2" Tri-clover connection
Head type	:	Round with spanner slot
Head size	:	27 mm

### DIMENSIONAL DRAWING



ORDERING CODES

1. SHANK FORM

- S Straight
- E Stepped
- T Tapered

S

2. MATERIAL

- MF AISI 316 SS
- MG AISI 316L SS

MF

3. 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)

02N

4. BORE DIAMETER ("d")

- N 6.35 mm (1/4")
- A 6.6 mm
- C 9.0 mm
- D 9.6 mm
- O 10 mm

A

5. LAG EXTENSION ("T")

- XXX 35 mm up to 250 mm

50

6. ROOT DIAMETER ("Q")

- XX.X Mention in 'mm'

21

7. TIP DIAMETER ("D")

- XX.X Mention in 'mm'

21

8. IMMERSION LENGTH ("U")

- XXXX 50 mm up to 1000 mm

150

13. STEP STYLE

- S Straight
- T Taper

S

9. STEP / TAPER LENGTH ("S")

- XXX Mention in 'mm'

150

10. TIP THICKNESS ("t")

- M 5 mm
- N 6.35 mm (1/4")
- O 10 mm

M

11. PROCESS CONNECTION

- T01 1" Tri-clover connection
- T02 2" Tri-clover connection
- T15 1 1/2" Tri-clover connection
- T25 2 1/2" Tri-clover connection

T15

12. HEAD TYPE

- H Hex
- L Round with spanner slot

L

13. HEAD SIZE

- XX Mention in 'mm'

27

14. OTHER OPTIONS

- XI Plug & chain in SS
- XK Electro polishing
- XL Marking by laser
- XM Marking by engraving
- TC Material test certificate 3.1
- TD Dye penetration test
- TG IGC test
- TH Hydro test certificate
- TM Material test certificate 2.2
- TN Tested to NACE standards
- TW WFC as per PTC 19.3TW:2010

XM

Ordering Example : W202-S-MF-02N-A-50-21-21-150-S-150-M-T15-L-27-XM

NOTES:

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



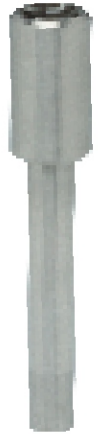
## FEATURES

- Weld-in / Socket-weld design
- Solid bar-stock drilled

## APPLICATION

- Oil & Gas applications
- Corrosive environments
- On-shore/Off-shore application
- Power & Utility

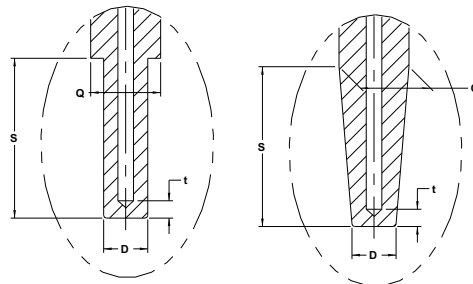
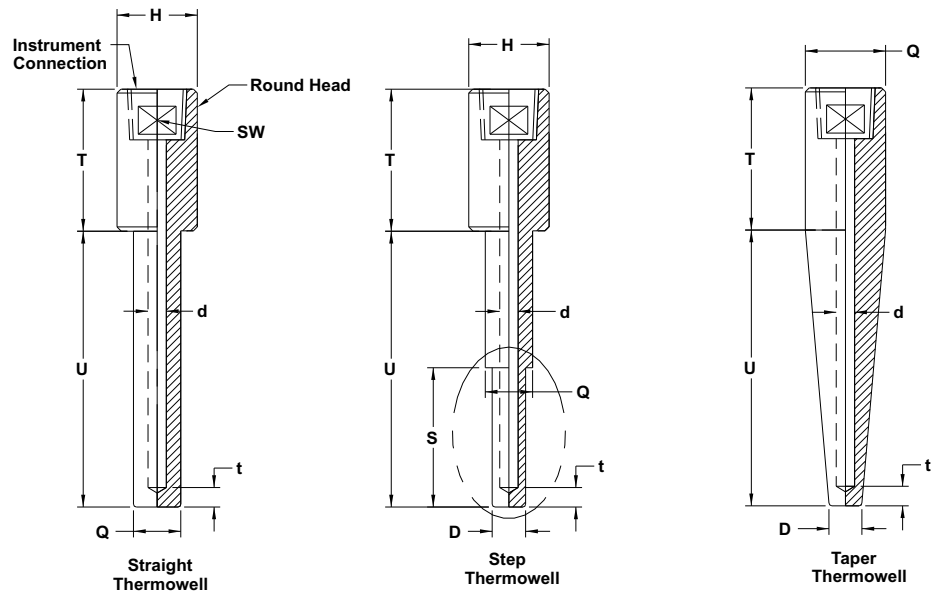
### Bar-stock



### STANDARD SPECIFICATIONS

Shank form	:	Tapered
Material	:	AISI 316 SS
Instrument connection	:	1/2" NPT (F)
Bore diameter	:	6.6 mm
Lag extension	:	50 mm
Root diameter	:	21.0 mm
Tip diameter	:	16.0 mm
Immersion length	:	300 mm
Step / Taper Length	:	100 mm
Tip thickness	:	5 mm
Process connection	:	Weld connection
Head type	:	Round
Head size	:	27 mm

### DIMENSIONAL DRAWING



## REFERENCE

ASME PTC 19.3TW:2010

ORDERING CODES

1. SHANK FORM

- S Straight
- E Stepped
- T Tapered

S

2. MATERIAL

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

MB

3. 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)

02N

4. BORE DIAMETER ("d")

- A 6.6 mm
- B 7.0 mm
- F 11.0 mm
- G 13.0 mm

A

5. LAG EXTENSION ("T")

- XXX 35 mm up to 250 mm

XXX

6. ROOT DIAMETER ("Q")

- XX.X Mention in 'mm'

XX.X

7. TIP DIAMETER ("D")

- XX.X Mention in 'mm'

XX.X

8. IMMERSION LENGTH ("U")

- XXXX 50 mm up to 1000 mm

XXXX

9. STEP / TAPER LENGTH ("S")

- XXX Mention in 'mm'

XXX

10. TIP THICKNESS ("t")

- M 5 mm
- N 6.35 mm (1/4")
- O 10 mm

M

11. HEAD TYPE

- R Round

R

12. HEAD SIZE

- XX Mention in 'mm'

5

13. OTHER OPTIONS

- XI Plug & chain in SS
- XL Marking by laser
- XM Marking by engraving
- TC Material test certificate 3.1
- TG IGC test
- TH Hydro test certificate
- TI IBR certification
- TM Material test certificate 2.2
- TN Tested to NACE standards
- TQ Certification for Hydrogen service
- TW WFC as per PTC 19.3TW:2010

XM

Ordering Example : W203-S-MB-02N-A-XXX-XX.X-XX.X-XXXX-XXX-M-R-5-XM

NOTES:

- 1. Other connections are available through adaptors.

## FEATURES

- Partial bar-stock
- Flanged process connection

## APPLICATION

- Tanks & vessels

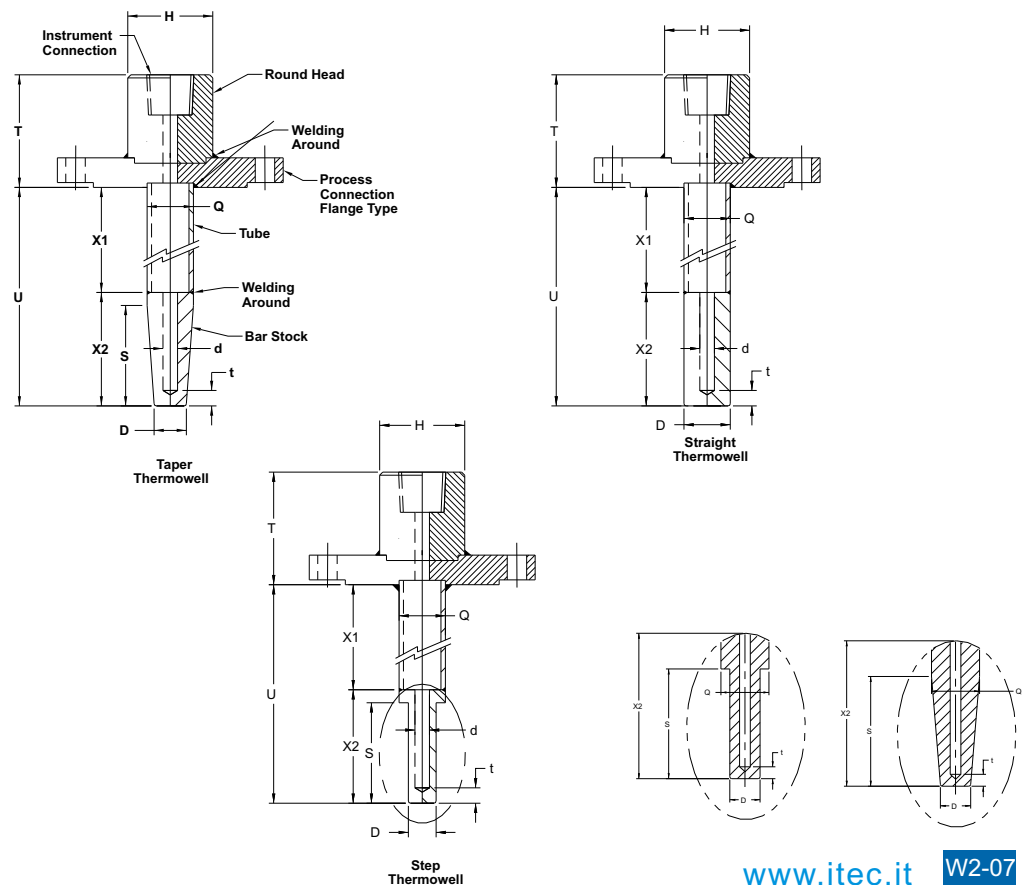
### Partial Bar-stock



### STANDARD SPECIFICATIONS

Shank form	:	Straight
Flange material	:	AISI 316 SS
Well material	:	AISI 316 SS
Instrument connection	:	1/2" NPT (F)
Well Tubes	:	Pipe 1/2" Sch 40
Lag extension	:	50 mm
Immersion length	:	300 mm
Prop length	:	250 mm
Tail length	:	50 mm
Tip thickness	:	5 mm
Process connection	:	1" 150# as per ANSI B16.5
Flange facing type	:	Raised face
Head type	:	Round
Head size	:	27 mm

### DIMENSIONAL DRAWING



## REFERENCE

ASME PTC 19.3TW:2010

ORDERING CODES

1. SHANK FORM

S Straight T Tapered

S

2. FLANGE MATERIAL

MB Carbon Steel / ASTM A105  
 MC AISI 304SS ME AISI 310 SS  
 MF AISI 316 SS MG AISI 316L SS  
 MI AISI 321 SS MQ Inconel 600  
 MR Inconel 625 MO Hastelloy C-276  
 MN Monel-400 MM Monel K500

MB

3. WELL (STUB & TAIL) MATERIAL

MB Carbon Steel / ASTM A105  
 MC AISI 304SS ME AISI 310 SS  
 MF AISI 316 SS MG AISI 316L SS  
 MI AISI 321 SS MQ Inconel 600  
 MR Inconel 625 MO Hastelloy C-276  
 MN Monel-400 MM Monel K500

MB

4. INSTRUMENT CONNECTION

02N 1/4" NPT (F) 04N 1/2" NPT (F)  
 05N 3/4" NPT (F) 06N 1" NPT (F)  
 02B 1/4" BSP (F) 04B 1/2" BSP (F)  
 05B 3/4" BSP (F) 06B 1" BSP (F)

02N

5. WELL PIPES

U3 Pipe 3/8" Sch 40 U4 Pipe 3/8" Sch 80  
 U5 Pipe 1/2" Sch 40 U6 Pipe 1/2" Sch 80  
 U7 Pipe 3/4" Sch 40 U8 Pipe 3/4" Sch 80  
 UA Pipe 1/4" Sch 40 UB Pipe 1/4" Sch 80  
 UC Pipe 1/2" Sch 160 UD Pipe 3/4" Sch 160

U3

5. WELL TUBES OR

U1 Tube Ø10 x 1.5 mm THK  
 UL Tube Ø12 x 2.5 mm THK  
 UM Tube Ø14 x 2.5 mm THK  
 UN Tube Ø12 x 1.0 mm THK  
 UO Tube Ø14 x 1.0 mm THK  
 UP Tube Ø16 x 2.0 mm THK

U1

6. LAG EXTENSION ("T")

XXX 35 mm up to 250 mm

XXX

7. IMMERSION LENGTH ("U")

XXXX 50 mm up to 1000 mm

XXXX

8. STEP STYLE

S Straight  
 T Taper

S

9. STEP / TAPER LENGTH ("S")

XXX Mention in 'mm'

XXX

10. STUB LENGTH ("X1")

XXXX 50 mm up to 1000 mm

XXXX

11. TAIL LENGTH ("X2")

XXXX 50 mm up to 1000 mm

XXXX

12. TIP THICKNESS ("t")

M 5 mm  
 N 6.35 mm (1/4")  
 O 10 mm

M

13. PROCESS CONNECTION

XXX Refer Flange Table for the codes

XXX

14. FLANGE FACING

F Flat Face  
 J Ring-Type Joint  
 R Raised Face

F

15. HEAD TYPE

R Round

R

16. HEAD SIZE

XX Mention in 'mm'

XX

17. OTHER OPTIONS

XI Plug & chain in SS  
 XL Marking by laser  
 XM Marking by engraving  
 TC Material test certificate 3.1  
 TD Dye penetration test  
 TH Hydro test certificate  
 TM Material test certificate 2.2  
 TQ Certification for Hydrogen service

XM

Ordering Example : W204-S-MB-MB-02N-U3-U1-XXX-XXXX-XXXX-XXXX-M-XXX-F-R-XX-XM

NOTES:

1. Other connections are available through adaptors.

## FEATURES

- Multiple bar-stock type
- Length up to 5 Meters
- 3 different shank styles
- Flanged / threaded 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

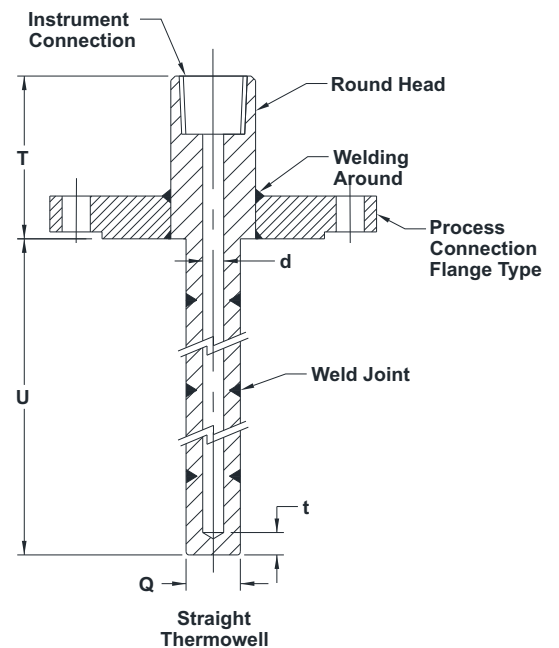
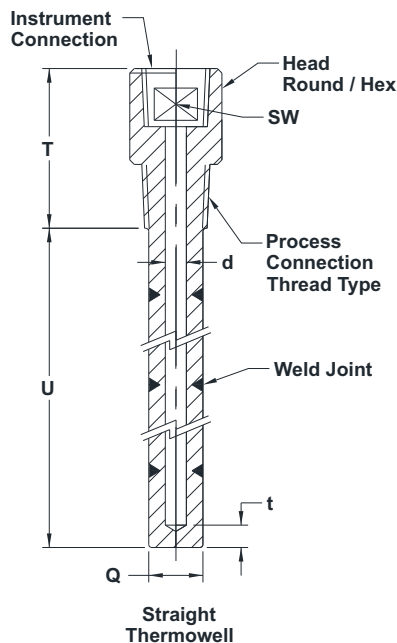
### Multi-piece Bar-stock



### STANDARD SPECIFICATIONS

Shank form	:	Straight
Flange material	:	AISI 316 SS
Well material	:	AISI 316 SS
Instrument connection	:	1/2" NPT (F)
Bore diameter	:	6.6 mm
Lag extension	:	50 mm
Root diameter	:	21.0 mm
Tip diameter	:	0 mm
Immersion length	:	2000 mm
Step / Taper Length	:	0 mm
Tip thickness	:	5 mm
Process connection	:	1" 150# as per ANSI B16.5
Flange facing type	:	Raised face
Head type	:	Round
Head size	:	30 mm

### DIMENSIONAL DRAWING



## REFERENCE

ASME PTC 19.3TW:2010

## ORDERING CODES

## 1. SHANK FORM

<b>S</b>	Straight
<b>E</b>	Stepped
<b>T</b>	Tapered

S

## 2. FLANGE MATERIAL

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

MB

## 3. WELL MATERIAL

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

MB

## 4. INSTRUMENT CONNECTION

<b>02N</b>	1/4" NPT (F)	<b>04N</b>	1/2" NPT (F)
<b>05N</b>	3/4" NPT (F)	<b>06N</b>	1" NPT (F)
<b>02B</b>	1/4" BSP (F)	<b>04B</b>	1/2" BSP (F)
<b>05B</b>	3/4" BSP (F)	<b>06B</b>	1" BSP (F)

02N

## 5. BORE DIAMETER ("d")

<b>N</b>	6.35 mm (1/4")	<b>A</b>	6.6 mm
<b>B</b>	7.0 mm	<b>C</b>	9.0 mm
<b>D</b>	9.6 mm	<b>F</b>	11 mm
<b>G</b>	13 mm	<b>O</b>	10 mm

A

## 6. LAG EXTENSION ("T")

<b>XXX</b>	35 mm up to 250 mm
------------	--------------------

XXX

## 7. ROOT DIAMETER ("Q")

<b>XX.X</b>	Mention in 'mm'
-------------	-----------------

XX.X

## 8. TIP DIAMETER ("D")

<b>XX.X</b>	Mention in 'mm'
-------------	-----------------

XX.X

## 9. IMMERSION LENGTH ("U")

<b>XXXX</b>	50 mm up to 1000 mm
-------------	---------------------

XXXX

## 8. STEP STYLE

<b>S</b>	Straight
<b>T</b>	Taper

S

## 9. STEP / TAPER LENGTH ("S")

<b>XXX</b>	Mention in 'mm'
------------	-----------------

XXX

## 10. TIP THICKNESS ("t")

<b>M</b>	5 mm
<b>N</b>	6.35 mm (1/4")
<b>O</b>	10 mm

M

## 11. PROCESS CONNECTION

<b>XXX</b>	Refer Flange Table for the codes
------------	----------------------------------

XXX

## 12. FLANGE FACING

<b>F</b>	Flat Face
<b>J</b>	Ring-Type Joint
<b>R</b>	Raised Face

F

## 13. HEAD TYPE

<b>R</b>	Round
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R

## 14. HEAD SIZE

<b>XX</b>	Mention in 'mm'
-----------	-----------------

XX

## 15. OTHER OPTIONS

<b>XI</b>	Plug & chain in SS
<b>XK</b>	Electro polishing
<b>XL</b>	Marking by laser
<b>XM</b>	Marking by engraving
<b>TC</b>	Material test certificate 3.1
<b>TD</b>	Dye penetration test
<b>TH</b>	Hydro test certificate
<b>TM</b>	Material test certificate 2.2
<b>TN</b>	Tested to NACE standards

XM

Ordering Example : W205-S-MB-MB-02N-A-XXX-XX.X-XX.X-XXXX-M-XXX-F-R-XX-XM

## NOTES:

1. Other connections are available through adaptors.

## FEATURES

- Solid bar-stock drilled design
- 3 different shank styles
- Compression end 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

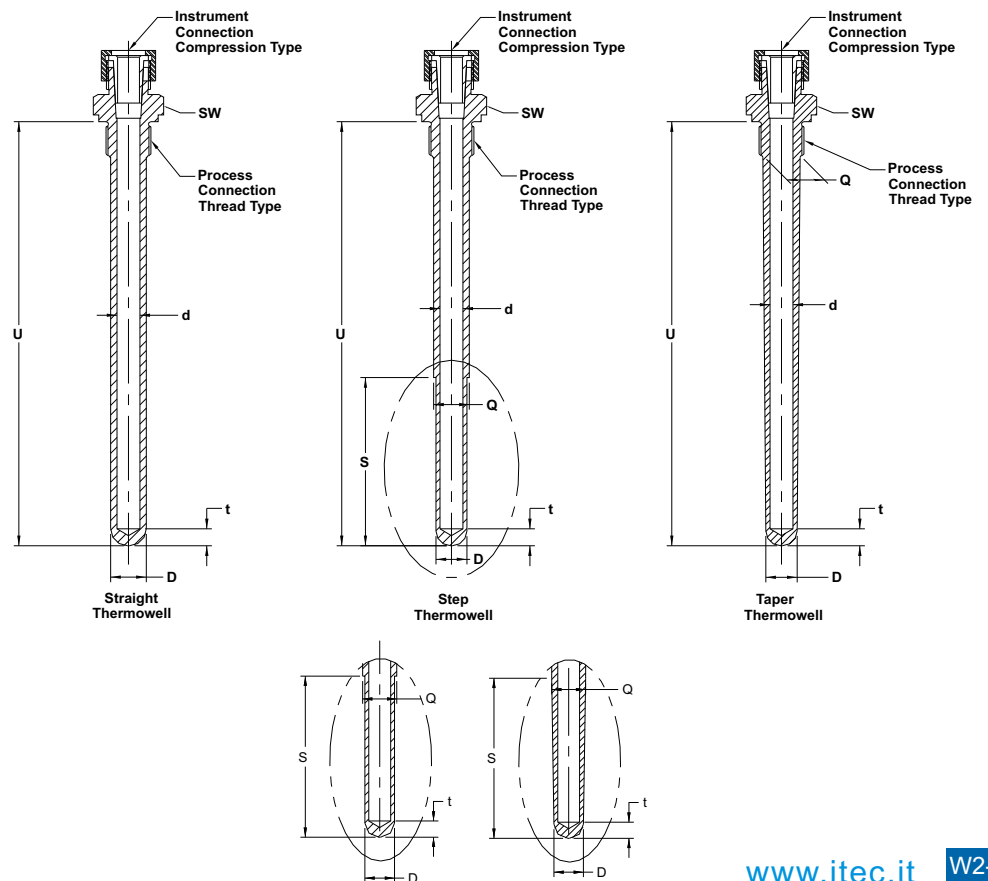
### Bar-stock



### STANDARD SPECIFICATIONS

Shank form	:	Tapered
Material	:	AISI 316 SS
Instrument connection	:	Nut with Compression ferrule
Bore diameter	:	6.6 mm
Lag extension	:	50 mm
Root diameter	:	21.0 mm
Tip diameter	:	16.0 mm
Immersion length	:	300 mm
Step / Taper Length	:	100 mm
Tip thickness	:	5 mm
Process connection	:	3/4" NPT (M)
Head type	:	Hex
Head size	:	36 mm

### DIMENSIONAL DRAWING



## ORDERING CODES

## 1. SHANK FORM

<b>S</b>	Straight
<b>E</b>	Stepped
<b>T</b>	Tapered

S

## 2. MATERIAL

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

MB

## 3. INSTRUMENT CONNECTION

Nut with Compression ferrule  
Size as per customer requirement.

## 4. BORE DIAMETER ("d")

<b>A</b>	6.6 mm
<b>B</b>	7.0 mm
<b>C</b>	9.0 mm
<b>D</b>	9.6 mm
<b>F</b>	11 mm
<b>G</b>	13 mm

A

## 5. LAG EXTENSION ("T")

**XXX** 35 mm up to 250 mm

XXX

## 6. ROOT DIAMETER ("Q")

**XX.X** Mention in 'mm'

XX.X

## 7. TIP DIAMETER ("D")

**XX.X** Mention in 'mm'

XX.X

## 8. IMMERSION LENGTH ("U")

**XXXX** 50 mm up to 1000 mm

XXXX

## 9. STEP / TAPER LENGTH ("S")

**XXX** Mention in 'mm'

XXX

## 10. TIP THICKNESS ("t")

<b>M</b>	5 mm
<b>N</b>	6.35 mm (1/4")
<b>O</b>	10 mm

M

## 11. PROCESS CONNECTION

<b>14N</b>	1/2" NPT (M)
<b>15N</b>	3/4" NPT (M)
<b>16N</b>	1" NPT (M)
<b>17N</b>	1.5" NPT (M)
<b>18N</b>	2" NPT (M)
<b>14B</b>	1/2" BSP (M)
<b>15B</b>	3/4" BSP (M)
<b>16B</b>	1" BSP (M)
<b>17B</b>	1.5" BSP (M)
<b>18B</b>	2" BSP (M)

14N

## 12. HEAD TYPE

<b>H</b>	Hex
<b>L</b>	Round with spanner slot

H

## 13. HEAD SIZE

**XX** Mention in 'mm'

XX

## 14. OTHER OPTIONS

<b>XI</b>	Plug & chain in SS
<b>XK</b>	Electro polishing
<b>XL</b>	Marking by laser
<b>XM</b>	Marking by engraving
<b>TC</b>	Material test certificate 3.1
<b>TH</b>	Hydro test certificate
<b>TM</b>	Material test certificate 2.2
<b>TN</b>	Tested to NACE standards

XM

Ordering Example : W206-S-MB-A-XXX-XX.X-XX.X-XXXX-XXX-M-14N-H-XX-XM

## NOTES:

1. Other bore diameter and process connections contact factory.