

## FEATURES

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

## APPLICATIONS

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

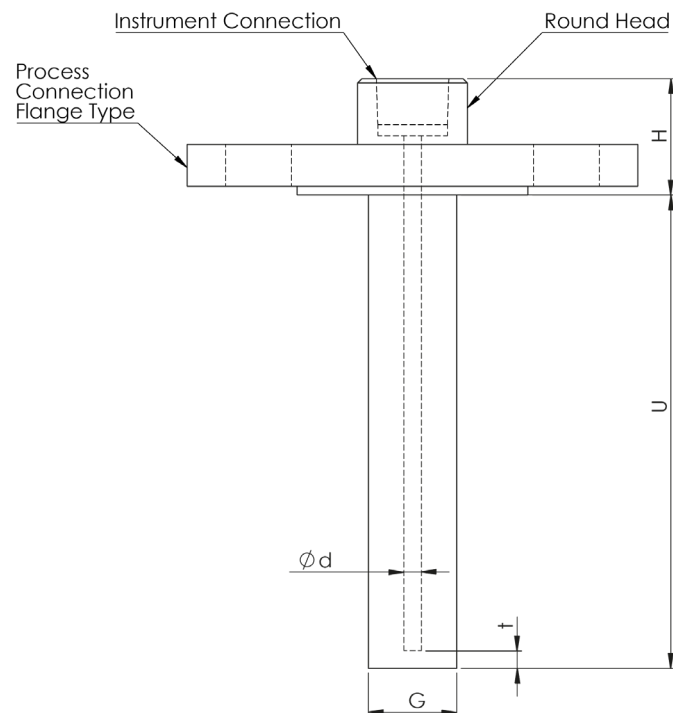
## Straight Shank



### STANDARD SPECIFICATIONS

Shank form	: Straight
Flange material	: AISI 316 SS
Well material	: AISI 316 SS
Instrument connection	: ½" NPT (F)
Bore diameter	: 7 mm
Lag extension	: 50 mm
Root diameter	: By order
Tip diameter	: By order
Immersion length	: By order
Tip thickness	: 5 mm
Process connection	: Flange as per ANSI B16.5, EN 1092-1
Flange facing type	: Raised face

### DIMENSIONAL DRAWING



## ORDERING CODES

### 1. SHANK FORM

<b>S</b>	Straight	<b>S</b>
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### 2. FLANGE MATERIAL

<b>MB</b>	Carbon Steel / ASTM A105	<b>MG</b>	AISI 316L SS	<b>MB</b>
<b>MC</b>	AISI 304 SS	<b>MV</b>	Titanium	
<b>MF</b>	AISI 316 SS			
<b>MM</b>	Monel			
<b>MO</b>	Hastelloy C-276			
<b>MR</b>	Inconel 625			
<b>MI</b>	AISI 321 SS			

### 3. WELL MATERIAL

<b>MB</b>	Carbon Steel / ASTM A105	<b>MG</b>	AISI 316L SS	<b>MB</b>
<b>MC</b>	AISI 304SS	<b>MV</b>	Titanium	
<b>MF</b>	AISI 316 SS			
<b>MM</b>	Monel			
<b>MO</b>	Hastelloy C-276			
<b>MR</b>	Inconel 625			
<b>MI</b>	AISI 321 SS			

### 4. INSTRUMENT CONNECTION

<b>02N</b>	1/4" NPT (F)	<b>04N</b>	1/2" NPT (F)	<b>02N</b>
<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>XXX</b>	Refer Flange Table for the codes	<b>XXX</b>
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### 6. FLANGE FACING

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

### 7. HEAD SIZE

<b>XX</b>	Mention in 'mm'	<b>30</b>
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Recommended :

30 mm for flanges up to 1.5" sizes

35 mm for flanges above 1.5" sizes

## 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.

### 8. LAG EXTENSION ("T")

<b>XXX</b>	35 mm up to 250 mm	<b>50</b>
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### 9. TIP DIAMETER ("G")

<b>XX.X</b>	Mention in 'mm'	<b>18</b>
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### 10. BORE DIAMETER ("d")

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

### 11. IMMERSION LENGTH ("U")

<b>XXXX</b>	50 mm up to 1000 mm	<b>150</b>
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### 12. STEP STYLE

<b>S</b>	Straight	<b>S</b>
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### 13. TIP THICKNESS ("t")

<b>M</b>	5 mm	<b>M</b>
<b>N</b>	6.35 mm (1/4")	
<b>P</b>	8 mm	
<b>O</b>	10 mm	

### 14. CONSTRUCTION

<b>FA</b>	Flange & well full penetration welded	<b>FA</b>
<b>FB</b>	Flange & well thread jointed and seal Welded	
<b>FC</b>	Flange & well seal welded	

### 15. COATING ON WELL & FLANGE

<b>PD</b>	PTFE	<b>PD</b>
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### 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>XM</b>
<b>XN</b>	Collar type (According to WFC)	

## ORDERING CODES

### 17. CERTIFICATIONS

TC	Material test certificate	TC
TD	Dye penetration test	
TF	PMI test	
TH	Hydro test certificate	
TN	NACE standards	
TW	WFC as per PTC 19.3TW:2010	

Ordering Example : W111-S-MB-MB-02N-XXX-F-30-50-18-B-150-S-M-FA-PD-XM-TC

## Flange Table

### ANSI B 16.5

Code	Size	Rating	Code	Size	Rating	Code	Size	Rating
A01	½"	150#	A02	½"	300#	A03	½"	600#
A04	½"	900#	A05	½"	1500#	A06	½"	2500#
A07	¾"	150#	A08	¾"	300#	A09	¾"	600#
A10	¾"	900#	A11	¾"	1500#	A12	¾"	2500#
A13	1"	150#	A14	1"	300#	A15	1"	600#
A16	1"	900#	A17	1"	1500#	A18	1"	2500#
A19	1¼"	150#	A20	1¼"	300#	A21	1¼"	600#
A22	1¼"	900#	A23	1¼"	1500#	A24	1¼"	2500#
25A	1½"	150#	A26	1½"	300#	A27	1½"	600#
A28	1½"	900#	A29	1½"	1500#	A30	1½"	2500#
A31	2"	150#	A32	2"	300#	A33	2"	600#
A34	2"	900#	A35	2"	1500#	A36	2"	2500#
A37	2½"	150#	A38	2½"	300#	A39	2½"	600#
A40	2½"	900#	A41	2½"	1500#	A42	2½"	2500#
A43	3"	150#	A44	3"	300#	A45	3"	600#
A46	3"	900#	A47	3"	1500#	A48	3"	2500#
A49	4"	150#	A50	4"	300#	A51	4"	600#
A52	4"	900#	A53	4"	1500#	A54	4"	2500#

### NOTES

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