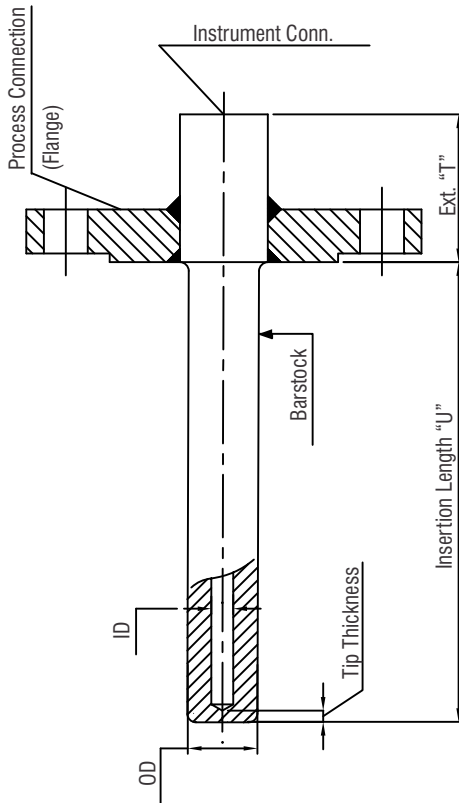


# TW BF 01 - Barstock Flanged Type Thermowell (Straight)



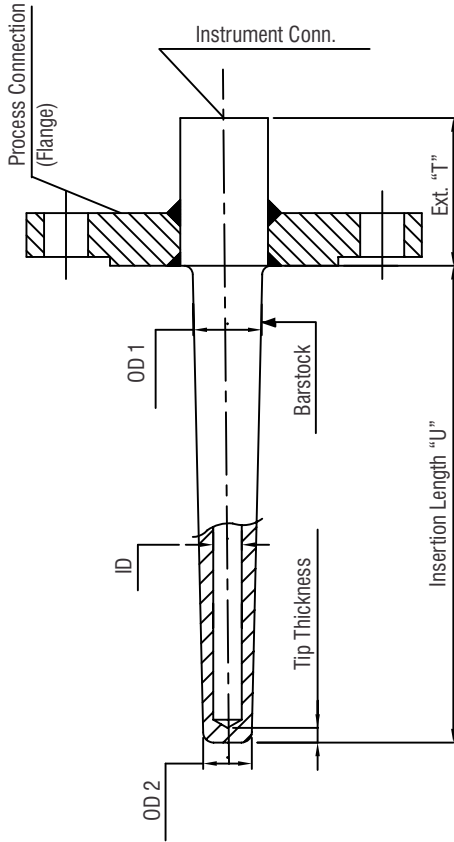
	Other Options
0	None
1	Plug & Chain
2	IBR
3	Radiography Test (RT) for Bore Concentricity
4	Ultrasonic Test (UT) for Bore Concentricity
5	NACE to MR-01-75-/MR-01-03
6	Radiography Test (RT) for weld joints
7	Full penetration weld
8	PWHT
9	H2 Service
10	1 mm Ti sleeve
11	1 mm Ni sleeve
12	1 mm Hac sleeve
13	0.4 mm Ta sleeve
14	1 mm PTFE coating
15	1 mm zirconium oxide coating
16	0.5 mm Tungsten carbide coating
17	1 mm Tungsten carbide coating
18	1 mm stellite coating

## TWBF - 01

<b>Thermowell Material</b>	<input type="text"/>	<table border="1"> <tr><td><b>S4S</b></td><td>SS304</td><td><b>825</b></td><td>Incoloy® 825</td></tr> <tr><td><b>S6S</b></td><td>SS316</td><td><b>600</b></td><td>Inconel® 600</td></tr> <tr><td><b>310</b></td><td>SS310</td><td><b>800</b></td><td>Incoloy® 800</td></tr> <tr><td><b>446</b></td><td>SS446</td><td><b>321</b></td><td>SS321</td></tr> <tr><td><b>S4L</b></td><td>SS304L</td><td><b>KAN</b></td><td>Kanthal</td></tr> <tr><td><b>S6L</b></td><td>SS316L</td><td><b>HCC</b></td><td>Hastelloy® C-276</td></tr> <tr><td><b>CST</b></td><td>CS</td><td><b>HCB</b></td><td>Hastelloy® B</td></tr> <tr><td><b>410</b></td><td>SS410</td><td><b>MN4</b></td><td>Monel® 400</td></tr> <tr><td><b>S7S</b></td><td>SS317</td><td><b>MN5</b></td><td>Monel® 500</td></tr> <tr><td><b>S7L</b></td><td>SS317L</td><td><b>TI2</b></td><td>Ti-II</td></tr> <tr><td><b>N20</b></td><td colspan="3">Nickel 200</td></tr> </table> <p>**Special material on Request</p>	<b>S4S</b>	SS304	<b>825</b>	Incoloy® 825	<b>S6S</b>	SS316	<b>600</b>	Inconel® 600	<b>310</b>	SS310	<b>800</b>	Incoloy® 800	<b>446</b>	SS446	<b>321</b>	SS321	<b>S4L</b>	SS304L	<b>KAN</b>	Kanthal	<b>S6L</b>	SS316L	<b>HCC</b>	Hastelloy® C-276	<b>CST</b>	CS	<b>HCB</b>	Hastelloy® B	<b>410</b>	SS410	<b>MN4</b>	Monel® 400	<b>S7S</b>	SS317	<b>MN5</b>	Monel® 500	<b>S7L</b>	SS317L	<b>TI2</b>	Ti-II	<b>N20</b>	Nickel 200												
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<b>Instrument Connection</b>	<input type="text"/>	<table border="1"> <thead> <tr> <th colspan="6">THREADED - T</th> </tr> <tr> <th>Size</th> <th>Code</th> <th>Type</th> <th>Code</th> <th>M / F</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>1/4"</td><td><b>06</b></td><td>NPS</td><td><b>NS</b></td><td>M</td><td><b>M</b></td></tr> <tr><td>3/8"</td><td><b>10</b></td><td>NPT</td><td><b>NT</b></td><td>F</td><td><b>F</b></td></tr> <tr><td>1/2"</td><td><b>15</b></td><td>BSP</td><td><b>BP</b></td><td></td><td></td></tr> <tr><td>3/4"</td><td><b>20</b></td><td>BSPT</td><td><b>BT</b></td><td></td><td></td></tr> <tr><td>1"</td><td><b>25</b></td><td>Gas</td><td><b>GS</b></td><td></td><td></td></tr> <tr><td>M20</td><td><b>M20</b></td><td>Pitch 1.5</td><td><b>C</b></td><td></td><td></td></tr> </tbody> </table>	THREADED - T						Size	Code	Type	Code	M / F	Code	1/4"	<b>06</b>	NPS	<b>NS</b>	M	<b>M</b>	3/8"	<b>10</b>	NPT	<b>NT</b>	F	<b>F</b>	1/2"	<b>15</b>	BSP	<b>BP</b>			3/4"	<b>20</b>	BSPT	<b>BT</b>			1"	<b>25</b>	Gas	<b>GS</b>			M20	<b>M20</b>	Pitch 1.5	<b>C</b>								
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<b>Insertion Length ("U")</b>	<input type="text"/>	Pl. Specify in mm																																																						
<b>Extension Length ("T")</b>	<input type="text"/>	Pl. Specify in mm																																																						
<b>Tip Thickness</b>	<input type="text"/>	Pl. Specify in mm																																																						

Ordering Example:- TWBF01-S6S-32-16-7-T15NTF-F25ARF-S6S-280-60-5-1

# TW BF 02 - Barstock Flanged Type Thermowell (Taper)



Other Options	
0	None
1	Plug & Chain
2	IBR
3	Radiography Test (RT) for Bore Concentricity
4	Ultrasonic Test (UT) for Bore Concentricity
5	NACE to MR-01-75-/MR-01-03
6	Radiography Test (RT) for weld joints
7	Full penetration weld
8	PWHT
9	H2 Service
14	1 mm PTFE coating
15	1 mm zirconium oxide coating
16	0.5 mm Tungsten carbide coating
17	1 mm Tungsten carbide coating
18	1 mm stellite coating
19	Tapered for tail portion only (Pl. Specify length in mm)

## TWBF - 02

### Thermowell Material

<b>S4S</b>	SS304	<b>825</b>	Incoloy® 825
<b>S6S</b>	SS316	<b>600</b>	Inconel® 600
<b>310</b>	SS310	<b>800</b>	Incoloy® 800
<b>446</b>	SS446	<b>321</b>	SS321
<b>S4L</b>	SS304L	<b>KAN</b>	Kanthal
<b>S6L</b>	SS316L	<b>HCC</b>	Hastelloy® C-276
<b>CST</b>	CS	<b>HCB</b>	Hastelloy® B
<b>410</b>	SS410	<b>MN4</b>	Monel® 400
<b>S7S</b>	SS317	<b>MN5</b>	Monel® 500
<b>S7L</b>	SS317L	<b>TI2</b>	Ti-II
<b>N20</b>	Nickel 200		

\*\*Special material on Request

### Head Dia

Pl. Specify in mm

### OD 1 (Cold End)

Pl. Specify in mm

### OD 2 (Hot End)

Pl. Specify in mm

### Bore ID

Pl. Specify in mm

### Instrument Connection

THREADED - T					
Size	Code	Type	Code	M / F	Code
1/4"	<b>06</b>	NPS	<b>NS</b>	M	<b>M</b>
3/8"	<b>10</b>	NPT	<b>NT</b>	F	<b>F</b>
1/2"	<b>15</b>	BSP	<b>BP</b>		
3/4"	<b>20</b>	BSPT	<b>BT</b>		
1"	<b>25</b>	Gas	<b>GS</b>		
M20	<b>M20</b>	Pitch 1.5	<b>C</b>		

### Process Connection

FLANGED - F					
Size	Code	Rating	Code	Facing	Code
1/2"	<b>15</b>	150	<b>A</b>	RF	<b>RF</b>
3/4"	<b>20</b>	300	<b>B</b>	FF	<b>FF</b>
1"	<b>25</b>	600	<b>C</b>	RTJ	<b>RJ</b>
1-1/2"	<b>40</b>	900	<b>D</b>	ST	<b>ST</b>
2"	<b>50</b>	1500	<b>E</b>	SG	<b>SG</b>
3"	<b>80</b>	2500	<b>F</b>	LT	<b>LT</b>
				LG	<b>LG</b>

### Flange Material

<b>S4S</b>	SS304	<b>825</b>	Incoloy® 825
<b>S6S</b>	SS316	<b>600</b>	Inconel® 600
<b>310</b>	SS310	<b>800</b>	Incoloy® 800
<b>446</b>	SS446	<b>321</b>	SS321
<b>S4L</b>	SS304L	<b>S6L</b>	SS316L
<b>CST</b>	CS	<b>HCC</b>	Hastelloy® C-276
<b>410</b>	SS410	<b>HCB</b>	Hastelloy® B
<b>S7S</b>	SS317	<b>MN4</b>	Monel® 400
<b>S7L</b>	SS317L	<b>MN5</b>	Monel® 500
<b>TI2</b>	Ti-II	<b>N20</b>	Nickel 200

\*\*Special material on Request

### Insertion Length ("U")

Pl. Specify in mm

### Extension Length ("T")

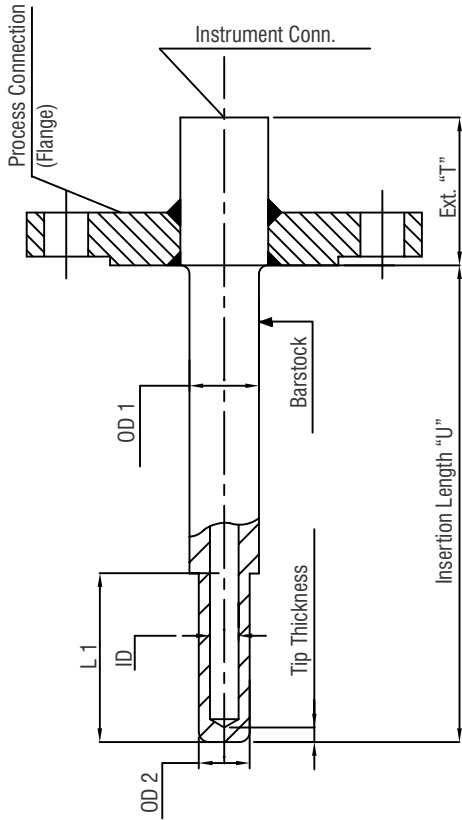
Pl. Specify in mm

### Tip Thickness

Pl. Specify in mm

Ordering Example:- TWBF02-S6L-34-22-18-11-T15NTF-F40BRF-S6L-320-65.6-4-19(150)

# TW BF 03 - Barstock Flanged Type Thermowell (Stepped)



Other Options	
0	None
1	Plug & Chain
2	IBR
3	Radiography Test (RT) for Bore Concentricity
4	Ultrasonic Test (UT) for Bore Concentricity
5	NACE to MR-01-75/-MR-01-03
6	Radiography Test (RT) for weld joints
7	Full penetration weld
8	PWHT
9	H2 Service
14	1 mm PTFE coating
16	0.5 mm Tungsten carbide coating
17	1 mm Tungsten carbide coating
18	1 mm stellite coating

## TWBF - 03

Thermowell Material

<b>S4S</b>	SS304	<b>825</b>	Incoloy® 825
<b>S6S</b>	SS316	<b>600</b>	Inconel® 600
<b>310</b>	SS310	<b>800</b>	Incoloy® 800
<b>446</b>	SS446	<b>321</b>	SS321
<b>S4L</b>	SS304L	<b>KAN</b>	Kanthal
<b>S6L</b>	SS316L	<b>HCC</b>	Hastelloy® C-276
<b>CST</b>	CS	<b>HCB</b>	Hastelloy® B
<b>410</b>	SS410	<b>MN4</b>	Monel® 400
<b>S7S</b>	SS317	<b>MN5</b>	Monel® 500
<b>S7L</b>	SS317L	<b>TI2</b>	Ti-II
<b>N20</b>	Nickel 200		

\*\*Special material on Request

Head Dia

Pl. Specify in mm

OD 1 (Cold End)

Pl. Specify in mm

OD 2 (Hot End)

Pl. Specify in mm

Bore ID

Pl. Specify in mm

Instrument Connection

THREADED - T					
Size	Code	Type	Code	M / F	Code
1/4"	<b>06</b>	NPS	<b>NS</b>	M	<b>M</b>
3/8"	<b>10</b>	NPT	<b>NT</b>	F	<b>F</b>
1/2"	<b>15</b>	BSP	<b>BP</b>		
3/4"	<b>20</b>	BSPT	<b>BT</b>		
1"	<b>25</b>	Gas	<b>GS</b>		
M20	<b>M20</b>	Pitch 1.5	<b>C</b>		

Process Connection

FLANGED - F					
Size	Code	Rating	Code	Facing	Code
1/2"	<b>15</b>	150	<b>A</b>	RF	<b>RF</b>
3/4"	<b>20</b>	300	<b>B</b>	FF	<b>FF</b>
1"	<b>25</b>	600	<b>C</b>	RTJ	<b>RJ</b>
1-1/2"	<b>40</b>	900	<b>D</b>	ST	<b>ST</b>
2"	<b>50</b>	1500	<b>E</b>	SG	<b>SG</b>
3"	<b>80</b>	2500	<b>F</b>	LT	<b>LT</b>
				LG	<b>LG</b>

Flange Material

<b>S4S</b>	SS304	<b>825</b>	Incoloy® 825
<b>S6S</b>	SS316	<b>600</b>	Inconel® 600
<b>310</b>	SS310	<b>800</b>	Incoloy® 800
<b>446</b>	SS446	<b>321</b>	SS321
<b>S4L</b>	SS304L	<b>S6L</b>	SS316L
<b>CST</b>	CS	<b>HCC</b>	Hastelloy® C-276
<b>410</b>	SS410	<b>HCB</b>	Hastelloy® B
<b>S7S</b>	SS317	<b>MN4</b>	Monel® 400
<b>S7L</b>	SS317L	<b>MN5</b>	Monel® 500
<b>TI2</b>	Ti-II	<b>N20</b>	Nickel 200

\*\*Special material on Request

Insertion Length ("U")

Pl. Specify in mm

Stepped Length ("L1")

Pl. Specify in mm

Extension Length ("T")

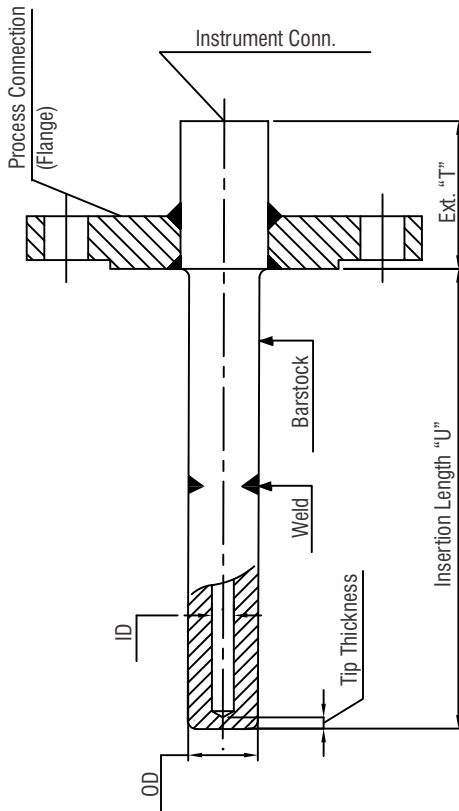
Pl. Specify in mm

Tip Thickness

Pl. Specify in mm

Ordering Example:- TWBF03-MN4-32-24-18-11-T15NTF-F40CRF-MN4-280-75-70-5-0

# TW BF 04 - Multiple Barstock Flanged Type Thermowell



Other Options	
0	None
1	Plug & Chain
2	IBR
3	Radiography Test (RT) for Bore Concentricity
4	Ultrasonic Test (UT) for Bore Concentricity
5	NACE to MR-01-75/-MR-01-03
6	Radiography Test (RT) for weld joints
7	Full penetration weld
8	PWHT
9	H2 Service
10	1 mm Ti sleeve
11	1 mm Ni sleeve
12	1 mm Hac sleeve
13	0.4 mm Ta sleeve
14	1 mm PTFE coating
15	1 mm zirconium oxide coating
16	0.5 mm Tungsten carbide coating
17	1 mm Tungsten carbide coating
18	1 mm stellite coating

## TWBF - 04

<b>Thermowell Material</b>	<input type="text"/>	<table border="1"> <tr><td><b>S4S</b></td><td>SS304</td><td><b>825</b></td><td>Incoloy® 825</td></tr> <tr><td><b>S6S</b></td><td>SS316</td><td><b>600</b></td><td>Inconel® 600</td></tr> <tr><td><b>310</b></td><td>SS310</td><td><b>800</b></td><td>Incoloy® 800</td></tr> <tr><td><b>446</b></td><td>SS446</td><td><b>321</b></td><td>SS321</td></tr> <tr><td><b>S4L</b></td><td>SS304L</td><td><b>KAN</b></td><td>Kanthal</td></tr> <tr><td><b>S6L</b></td><td>SS316L</td><td><b>HCC</b></td><td>Hastelloy® C-276</td></tr> <tr><td><b>CST</b></td><td>CS</td><td><b>HCB</b></td><td>Hastelloy® B</td></tr> <tr><td><b>410</b></td><td>SS410</td><td><b>MN4</b></td><td>Monel® 400</td></tr> <tr><td><b>S7S</b></td><td>SS317</td><td><b>MN5</b></td><td>Monel® 500</td></tr> <tr><td><b>S7L</b></td><td>SS317L</td><td><b>TI2</b></td><td>Ti-II</td></tr> <tr><td><b>N20</b></td><td colspan="3">Nickel 200</td></tr> <tr><td colspan="4">**Special material on Request</td></tr> </table>	<b>S4S</b>	SS304	<b>825</b>	Incoloy® 825	<b>S6S</b>	SS316	<b>600</b>	Inconel® 600	<b>310</b>	SS310	<b>800</b>	Incoloy® 800	<b>446</b>	SS446	<b>321</b>	SS321	<b>S4L</b>	SS304L	<b>KAN</b>	Kanthal	<b>S6L</b>	SS316L	<b>HCC</b>	Hastelloy® C-276	<b>CST</b>	CS	<b>HCB</b>	Hastelloy® B	<b>410</b>	SS410	<b>MN4</b>	Monel® 400	<b>S7S</b>	SS317	<b>MN5</b>	Monel® 500	<b>S7L</b>	SS317L	<b>TI2</b>	Ti-II	<b>N20</b>	Nickel 200			**Special material on Request									
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