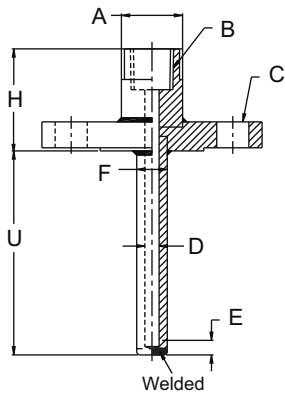



Special Features

- These Thermowells are fabricated from pipe with a welded end cap
- These Thermowells are installed directly into the process by using a bolted flanged connection
- Available in various shapes like straight, straight with reduced tip, partial taper & full taper
- All type of flanges and flange facings are available as per ANSI / DIN / JIS & BS
- Ideal for use in longer length tank & vessels where bar stock is a limitation

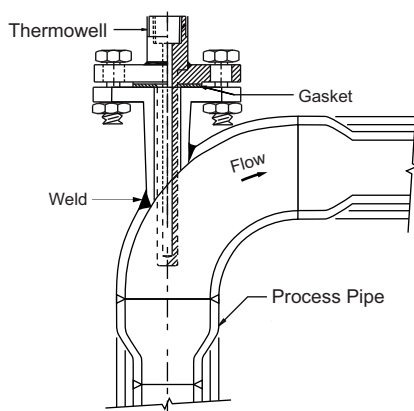
Applications

- Chemical plants
- Petrochemical plants
- Engineering plants
- On shore
- Off shore & other similar process industries

Thermowell Drawings

S - Straight

- A** - Finished Head Size
B - Instrument Connection
C - Process Connection
F - Major Diameter (As per Pipe Schedule)

- D** - Bore Diameter (As per Pipe Schedule)
E - Tip Thickness
U - Insertion Length
H - Extension Length

Thermowell Installation


How To Order					Example
Basic Model					W5
Type					
S - Straight					X
Well Material					
LP AISI 304 SS	EO AISI 310 SS	LU Inconel 600	LZ Alloy 20	LS Hastelloy C	XX
LM AISI 316 SS	EP AISI 410 SS	ES Inconel 625	LQ Carbon Steel		
LN AISI 316L SS	LO AISI 316Ti SS	ET Incolloy 800	LV Titanium		
EN AISI 321 SS	ER AISI 304L SS	EU Incolloy 825	LX Nickel		
Flange Material					
LP AISI 304 SS	EO AISI 310 SS	LU Inconel 600	LV Titanium		XX
LM AISI 316 SS	LO AISI 316Ti SS	ES Inconel 625	LX Nickel		
LN AISI 316L SS	ER AISI 304L SS	LQ Carbon Steel	LS Hastelloy C		
EN AISI 321 SS	LZ Alloy 20				
Note : Other Materials are available on request.					
Instrument Connection					
4BF 1/2" BSP (F)	5TF 3/4" BSPT (F)	6NF 1" NPT (F)	3MF M18 x 1.5 (F)	6MF M24 x 1.5 (F)	XXX
4NF 1/2" NPT (F)	5NF 3/4" NPT (F)	6BF 1" BSP (F)	4MF M20 x 1.5 (F)	7MF M27 x 2 (F)	
4TF 1/2" BSPT (F)	5BF 3/4" BSP (F)	6TF 1" BSPT (F)	5MF M22 x 1.5 (F)	9MF M33 x 2 (F)	
4FF 1/2" PF (F)	5PF 3/4" G (F)	6PF 1" G (F)			
4PF 1/2" G (F)					
Note : Other Connections are available on request.					
Flange Type					
1 Blind Flange	2 SORF Flange				X
Flange "C" (Size & Rating)					XXX
Refer Flange table for code selection.					
Flange Facing Type					X
R Raised Face	F Flat Face	J Ring type joint			
Flange Finish					X
1 - 125 AARH (Standard)	2 - 63 AARH				
Note : Other Flange finish are available on request.					
Extension / Lagging Length "H" (In case of welding neck flange & threaded flange, consult factory.)					XXX
Please specify in mm For e.g. : for length 50 mm, mention H50					
Finished Head Size "A" (Refer Table 1.1 for selection of Head Size for Thermowell.)					XXX
Please Specify in mm					
e.g. : For 28 mm Finished head Size, Specify A28					
Type of Head					
K Hex Headed*	L Round Headed	M Round Headed With Spanner Slots.			X
* Maximum "U" Length below thread will be 250 mm.					

Major Diameter "F"					Example
Pipe Size & Schedule					X
A ½"Sch 40	D ¾" Sch 40	G 1" Sch 40	J 1½" Sch 40	M 2" Sch 40	
B ½"Sch 80	E ¾" Sch 80	H 1" Sch 80	K 1½" Sch 80	N 2" Sch 80	
C ½"Sch 160	F ¾" Sch 160	I 1" Sch 160	L 1½" Sch 160	O 2" Sch 160	
Other Pipe Sizes & Schedules are available on request.					
Tip Thickness "E"					XX
Standard Tip Thickness is 5 mm. e.g. : Specify E5 for 5 mm Tip Thickness. For others, please specify in mm.					
Insertion Length "U"					XXXX
Please specify in mm e.g. : for 250 mm, mention U250					
Options					XX
GG Plug and chain in SS	CX Marking by Engraving	SX SS Tag Plate			
FW Electro polishing	TC Counter flange with studs, nuts & gasket	CW Marking by Lazer			
Lining & Coatings (User to specify thickness during enquiry)					
FI PTFE Lining*	EW Zirconium Oxide Coating				
FM Silicon Carbide Coating	EX Stellite Coating				
GK Rubber Lining*	EY PTFE Coating				
GJ Tungsten Carbide Coating					
* Lining will be on wetted area only.					
Overlay On Flange Rf (User to specify thickness during enquiry)					
LS Hastelloy 'C'	LT Monel	LV Titanium	LX Nickel		
LR Hastelloy 'B'	LU Inconel 600	LW Tantalum	LZ Alloy 20		
Sleeve Material (Wall Thickness : 1 mm)					
GM Hastelloy 'C'	FQ Monel	FT Tantalum (0.4 mm)			
FO Hastelloy 'B'	FR Inconel 600	FV Alloy 20			
FP Nickel	FJ Titanium				
Tests & Certification					
T1 Chemical Composition Test	T4 Dye Penetration Test				
T2 3.1B Material Conformity Certificate	C5 PMI Test				
T3 Radiography for Welding	H1 Hydro Test				
Ordering Example:					
W5 . XXXXX . XXX . X . XXX . X . X . XXX . XXX . X . X . XX . XXXX . XX					

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.

Flange Table With Connection Codes

As Per EN 1092-1			AS PER JIS - B 2239			AS PER ANSI B 16.5			AS PER BS - 10		
DN	PN	CODE	NOMINAL SIZE	RATING /CLASS	CODE	NOMINAL SIZE	RATING /CLASS	CODE	NOMINAL SIZE	TABLE	CODE
10	6	A01	10A	5K	B57	1/2"	150	B09	1/2"	D	B84
	10	A02		10K	B58		300	B10		E	B85
	16	A03		40K	B59		600	B11		F	B86
	25	A04	15A	5K	B60		900	B12		H	B87
	40	A05		10K	B61		1500	B13		J	B88
	64	A06	40K	B62	2500	B14	K	B89			
	100	A07	20A	5K	B63	3/4"	150	B15	3/4"	D	B90
	160	A08		10K	B64		300	B16		E	B91
	250	A09		40K	B65		600	B17		F	B92
	400	A10	15	5K	B66		900	B18		H	B93
6	A11	10K		B67	1500		B19	J		B94	
10	A12	40K	B68	2500	B20	K	B95				
16	A13	25A	5K	B69	1"	150	B21	1"	D	B96	
25	A14		10K	B70		300	B22		E	B97	
40	A15		40K	B71		600	B23		F	B98	
64	A16	10K	B72	900		B24	H		B99		
100	A17	40K	B73	1500		B25	J		C01		
160	A18	40A	5K	B74	2500	B26	K	C02			
250	A19		10K	B75	1 1/4"	150	B27	1 1/4"	D	C03	
400	A20		40K	B76		300	B28		E	C04	
6	A21	5K	B77	600		B29	F		C05		
10	A22	10K	B78	900		B30	H		C06		
16	A23	40K	B79	1500		B31	J		C07		
25	A24	50A	5K	B80	2500	B32	K	C08			
40	A25		10K	B81	1 1/2"	150	B33	1 1/2"	D	C09	
6	A26		40K	B82		300	B34		E	C10	
10	A27	5K	B83	600		B35	F		C11		
16	A28	10K	B84	900		B36	H		C12		
25	A29	40K	B85	1500		B37	J		C13		
40	A30	65A	5K	B86	2500	B38	K	C14			
64	A31		10K	B87	2"	150	B39	2"	D	C15	
100	A32		40K	B88		300	B40		E	C16	
160	A33	5K	B89	600		B41	F		C17		
250	A34	10K	B90	900		B42	H		C18		
400	A35	40K	B91	1500		B43	J		C19		
6	A36	80A	5K	B92	2500	B44	K	C20			
10	A37		10K	B93	2 1/2"	150	B45	2 1/2"	D	C21	
16	A38		40K	B94		300	B46		E	C22	
25	A39	5K	B95	600		B47	F		C23		
40	A40	10K	B96	900		B48	H		C24		
6	A41	100	40K	B97		1500	B49		J	C25	
10	A42		5K	B98	2500	B50	K	C26			
16	A43		10K	B99	3"	150	B51	3"	D	C27	
25	A44	40K	B00	300		B52	E		C28		
40	A45	5K	B01	600		B53	F		C29		
64	A46	10K	B02	900		B54	H		C30		
100	A47	40K	B03	1500		B55	J		C31		
160	A48	160	5K	B04	2500	B56	K	C32			
250	A49		10K	B05	50	6	A51	50	6	A51	
400	A50		40K	B06		10	A52		10	A52	
6	A51	5K	B07	16		A53	16		A53		
10	A52	10K	B08	25		A54	25		A54		
16	A53	40K	B09	40		A55	40		A55		
25	A54	5K	B10	64	A56	64	A56				
40	A55	10K	B11	100	A57	100	A57				
64	A56	40K	B12	160	A58	160	A58				
100	A57	5K	B13	250	A59	250	A59				
160	A58	10K	B14	400	A60	400	A60				
250	A59	40K	B15								
400	A60		B16								

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