



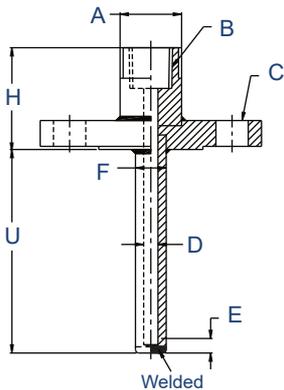
### Special Features

- 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

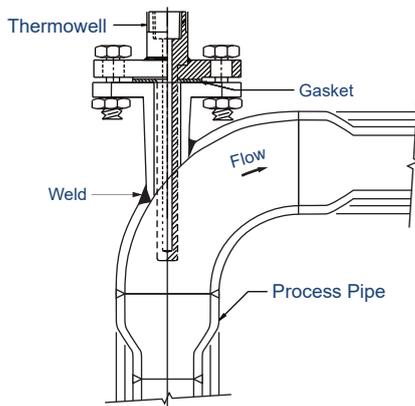
### Thermowell Drawings



#### S - Straight

- |  |   |
|--|---|
| <b>A</b> - Finished Head Size                    | <b>D</b> - Bore Diameter (As per Pipe Schedule) |
| <b>B</b> - Instrument Connection                 | <b>E</b> - Tip Thickness                        |
| <b>C</b> - Process Connection                    | <b>U</b> - Insertion Length                     |
| <b>F</b> - Major Diameter (As per Pipe Schedule) | <b>H</b> - Extension Length                     |

#### Thermowell Installation





# RT5

Thermowells  
Fabricated (Flanged)

How To Order					Example
<b>Basic Model</b>					RT5
Type					
<b>S - Straight</b>					X
<b>Well Material</b>					
<b>LP</b> AISI 304 SS	<b>EO</b> AISI 310 SS	<b>LU</b> Inconel 600	<b>LZ</b> Alloy 20	<b>LS</b> Hastelloy C	XX
<b>LM</b> AISI 316 SS	<b>EP</b> AISI 410 SS	<b>ES</b> Inconel 625	<b>LQ</b> Carbon Steel		
<b>LN</b> AISI 316L SS	<b>LO</b> AISI 316Ti SS	<b>ET</b> Incolloy 800	<b>LV</b> Titanium		
<b>EN</b> AISI 321 SS	<b>ER</b> AISI 304L SS	<b>EU</b> Incolloy 825	<b>LX</b> Nickel		
<b>Flange Material</b>					
<b>LP</b> AISI 304 SS	<b>EO</b> AISI 310 SS	<b>LU</b> Inconel 600	<b>LV</b> Titanium		XX
<b>LM</b> AISI 316 SS	<b>LO</b> AISI 316Ti SS	<b>ES</b> Inconel 625	<b>LX</b> Nickel		
<b>LN</b> AISI 316L SS	<b>ER</b> AISI 304L SS	<b>LQ</b> Carbon Steel	<b>LS</b> Hastelloy C		
<b>EN</b> AISI 321 SS	<b>LZ</b> Alloy 20				
Note : Other Materials are available on request.					
<b>Instrument Connection</b>					
<b>4BF</b> ½" BSP (F)	<b>5TF</b> ¾" BSPT (F)	<b>6NF</b> 1" NPT (F)	<b>3MF</b> M18 x 1.5 (F)	<b>6MF</b> M24 x 1.5 (F)	XXX
<b>4NF</b> ½" NPT (F)	<b>5NF</b> ¾" NPT (F)	<b>6BF</b> 1" BSP (F)	<b>4MF</b> M20 x 1.5 (F)	<b>7MF</b> M27 x 2 (F)	
<b>4TF</b> ½" BSPT (F)	<b>5BF</b> ¾" BSP (F)	<b>6TF</b> 1" BSPT (F)	<b>5MF</b> M22 x 1.5 (F)	<b>9MF</b> M33 x 2 (F)	
<b>4FF</b> ½" PF (F)	<b>5PF</b> ¾" G (F)	<b>6PF</b> 1" G (F)			
<b>4PF</b> ½" G (F)					
Note : Other Connections are available on request.					
<b>Flange Type</b>					
<b>1</b> Blind Flange	<b>2</b> SORF Flange				X
<b>Flange "C" (Size &amp; Rating)</b>					XXX
Refer Flange table for code selection.					
<b>Flange Facing Type</b>					X
<b>R</b> Raised Face	<b>F</b> Flat Face	<b>J</b> Ring type joint			
<b>Flange Finish</b>					X
<b>1</b> - 125 AARH (Standard)	<b>2</b> - 63 AARH				
Note : Other Flange finish are available on request.					
<b>Extension / Lagging Length "H" (In case of welding neck flange &amp; threaded flange, consult factory.)</b>					XXX
Please specify in mm For e.g. : for length 50 mm, mention H50					
<b>Finished Head Size "A" (Refer Table 1.1 for selection of Head Size for Thermowell.)</b>					XXX
Please Specify in mm					
e.g. : For 28 mm Finished head Size, Specify A28					
<b>Type of Head</b>					
<b>K</b> Hex Headed*	<b>L</b> Round Headed	<b>M</b> Round Headed With Spanner Slots.			X
* Maximum "U" Length below thread will be 250 mm.					



# RT5

Thermowells  
Fabricated (Flanged)

Major Diameter "F"					Example
<b>Pipe Size &amp; Schedule</b>					
<b>A</b> ½"Sch 40	<b>D</b> ¾" Sch 40	<b>G</b> 1" Sch 40	<b>J</b> 1½" Sch 40	<b>M</b> 2" Sch 40	X
<b>B</b> ½"Sch 80	<b>E</b> ¾" Sch 80	<b>H</b> 1" Sch 80	<b>K</b> 1½" Sch 80	<b>N</b> 2" Sch 80	
<b>C</b> ½"Sch 160	<b>F</b> ¾" Sch 160	<b>I</b> 1" Sch 160	<b>L</b> 1½" Sch 160	<b>O</b> 2" Sch 160	
Other Pipe Sizes & Schedules are available on request.					
<b>Tip Thickness "E"</b>					
Standard Tip Thickness is 5 mm. e.g. : Specify E5 for 5 mm Tip Thickness. For others, please specify in mm.					XX
<b>Insertion Length "U"</b>					
Please specify in mm e.g. : for 250 mm, mention <b>U250</b>					XXXX
<b>Options</b>					
<b>GG</b> Plug and chain in SS	<b>CX</b> Marking by Engraving	<b>SX</b> SS Tag Plate	XX		
<b>FW</b> Electro polishing	<b>TC</b> Counter flange with studs, nuts & gasket	<b>CW</b> Marking by Lazer			
<b>Lining &amp; Coatings</b> (User to specify thickness during enquiry)					
<b>FI</b> PTFE Lining*	<b>EW</b> Zirconium Oxide Coating				
<b>FM</b> Silicon Carbide Coating	<b>EX</b> Stellite Coating				
<b>GK</b> Rubber Lining*	<b>EY</b> PTFE Coating				
<b>GJ</b> Tungsten Carbide Coating					
* Lining will be on wetted area only.					
<b>Overlay On Flange Rf</b> (User to specify thickness during enquiry)					
<b>LS</b> Hastelloy 'C'	<b>LT</b> Monel	<b>LV</b> Titanium	<b>LX</b> Nickel		
<b>LR</b> Hastelloy 'B'	<b>LU</b> Inconel600	<b>LW</b> Tantalum	<b>LZ</b> Alloy 20		
<b>Sleeve Material</b> (Wall Thickness : 1 mm)					
<b>GM</b> Hastelloy 'C'	<b>FQ</b> Monel	<b>FT</b> Tantalum (0.4 mm)			
<b>FO</b> Hastelloy 'B'	<b>FR</b> Inconel 600	<b>FV</b> Alloy 20			
<b>FP</b> Nickel	<b>FJ</b> Titanium				
<b>Tests &amp; Certification</b>					
<b>T1</b> Chemical Composition Test	<b>T4</b> Dye Penetration Test				
<b>T2</b> 3.1B Material Conformity Certificate	<b>C5</b> PMI Test				
<b>T3</b> Radiography for Welding					
<b>Ordering Example:</b>					
<b>RT5 . XXXXX . XXX . X . XXX . X . X . XXX . XXX . X . X . XX . XXXX . XX</b>					

## Flange Table With Connection Codes

### AS PER DIN 2527

DN	PN	CODE
10	6	A01
	10	A02
	16	A03
	25	A04
	40	A05
	64	A06
	100	A07
	160	A08
	250	A09
	400	A10
15	6	A11
	10	A12
	16	A13
	25	A14
	40	A15
	64	A16
	100	A17
	160	A18
	250	A19
	400	A20
20	6	A21
	10	A22
	16	A23
	25	A24
	40	A25
25	6	A26
	10	A27
	16	A28
	25	A29
	40	A30
	64	A31
	100	A32
	160	A33
250	A34	
400	A35	
32	6	A36
	10	A37
	16	A38
	25	A39
	40	A40
40	6	A41
	10	A42
	16	A43
	25	A44
	40	A45
	64	A46
	100	A47
	160	A48
	250	A49
	400	A50
50	6	A51
	10	A52
	16	A53
	25	A54
	40	A55
	64	A56
	100	A57
	160	A58
	250	A59
	400	A60

DN	PN	CODE
65	6	A61
	10	A62
	16	A63
	25	A64
	40	A65
	64	A66
	100	A67
	160	A68
	250	A69
	400	A70
80	6	A71
	10	A72
	16	A73
	25	A74
	40	A75
	64	A76
	100	A77
	160	A78
	250	A79
	400	A80

### AS PER JIS - B 2210

NOMINAL SIZE	RATING /CLASS	CODE
10A	5K	B57
	10K	B58
	40K	B59
15A	5K	B60
	10K	B61
	40K	B62
20A	5K	B63
	10K	B64
	40K	B65

NOMINAL SIZE	RATING /CLASS	CODE
25A	5K	B66
	10K	B67
	40K	B68
32A	5K	B69
	10K	B70
	40K	B71
40A	5K	B72
	10K	B73
	40K	B74

NOMINAL SIZE	RATING /CLASS	CODE
50A	5K	B75
	10K	B76
	40K	B77
65A	5K	B78
	10K	B79
	40K	B80
80A	5K	B81
	10K	B82
	40K	B83

### AS PER DIN 2642

DN	PN	CODE
10	10	A90
15		A91
20		A92
25		A93
32		A94
40		A95
50		A96
65		A97
80		A98

### AS PER DIN 2633

DN	PN	CODE
10	16	A81
15		A82
20		A83
25		A84
32		A85
40		A86
50		A87
65		A88
80		A89

### AS PER DIN 2635

DN	PN	CODE
10	40	A99
15		B01
20		B02
25		B03
32		B04
40		B05
50		B06
65		B07
80		B08

### AS PER ANSI B 16.5

NOMINAL SIZE	RATING /CLASS	CODE
1/2"	150	B09
	300	B10
	600	B11
	900	B12
	1500	B13
	2500	B14
3/4"	150	B15
	300	B16
	600	B17
	900	B18
	1500	B19
	2500	B20

NOMINAL SIZE	RATING /CLASS	CODE
1"	150	B21
	300	B22
	600	B23
	900	B24
	1500	B25
	2500	B26
1 1/4"	150	B27
	300	B28
	600	B29
	900	B30
	1500	B31
	2500	B32

NOMINAL SIZE	RATING /CLASS	CODE
1 1/2"	150	B33
	300	B34
	600	B35
	900	B36
	1500	B37
	2500	B38
2"	150	B39
	300	B40
	600	B41
	900	B42
	1500	B43
	2500	B44

NOMINAL SIZE	RATING /CLASS	CODE
2 1/2"	150	B45
	300	B46
	600	B47
	900	B48
	1500	B49
	2500	B50
3"	150	B51
	300	B52
	600	B53
	900	B54
	1500	B55
	2500	B56

### AS PER BS - 10

NOMINAL SIZE	TABLE	CODE
1/2"	D	B84
	E	B85
	F	B86
	H	B87
	J	B88
	K	B89
3/4"	D	B90
	E	B91
	F	B92
	H	B93
	J	B94
	K	B95

NOMINAL SIZE	TABLE	CODE
1"	D	B96
	E	B97
	F	B98
	H	B99
	J	C01
	K	C02
1 1/4"	D	C03
	E	C04
	F	C05
	H	C06
	J	C07
	K	C08

NOMINAL SIZE	TABLE	CODE
1 1/2"	D	C09
	E	C10
	F	C11
	H	C12
	J	C13
	K	C14
2"	D	C15
	E	C16
	F	C17
	H	C18
	J	C19
	K	C20

NOMINAL SIZE	TABLE	CODE
2 1/2"	D	C21
	E	C22
	F	C23
	H	C24
	J	C25
	K	C26
3"	D	C27
	E	C28
	F	C29
	H	C30
	J	C31
	K	C32

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.