

## Flanged Thermowells

### FEATURES

- One piece bar stock construction
- Stamped with mill traceable material and heat number
- Full penetration welds on flanged thermowell
- Standard or customized shank dimensions
- Testing and certifications including wake frequency calculations per ASME PTC 19.3 TW-2016

### TYPICAL USES

- Chemical and petrochemical plants
- Water and wastewater pressure control
- Pharmaceutical / Biotech
- Food and beverages



**Flanged Thermowells**  
1", 1½", 2" flange sizes

### SPECIFICATIONS

Shank Style:	Straight, tapered, stepped
Process Connection:	1", 1½", 2"
Instrument Connection:	½ NPSM, ½ NPT Female
Bore Size:	0.260", 0.385"
Flange Facing:	Raised, flat, ring joint
Rating/Class:	150, 300, 600, 900, 1500, 2500
Surface Finish:	16-32, flange finish 125-250 RMS
Lagging:	2": if U-dimension is <3" 3": if U-dimension is >3"
Cap and Chain:	Brass, stainless steel

### KEY BENEFITS

- Protects instrument against corrosive effects
- Permits instrument interchange or calibration check
- Tracing of material origin for quality assurance and control

TABLE 1

OPTIONS	CODE
Stamp tag number on thermowell	NF
Stainless steel tag wired to thermowell	NH
Hydrostatic test-external	W4
Clean for oxygen service	6B
Wake frequency calculation	W5
Liquid dye penetrant	W2
Material origin restriction	UM
Custom Shank and Tip dimensions (dimensions requested need to be on order)	DQ

### Certificates

Certificate of Conformance (per order)	CD-1A
Physical and Chemical Material Test Report (MTR's)	W6
Positive Material Identification (PMI) (N/A with Carbon Steel)	MQ
NACE Certificate of Compliance	CD-5

TABLE 2

MATERIALS	CODE
304 Stainless steel	C
316 Stainless steel	S
Monel®	M
Hastelloy® B/C	G/H
Carpenter® 20	D
Chrome Moly F11/F22	FA/FB
Duplex 2205 S/S	J
Super Duplex S32750	SD
Inconel® 600	W
Titanium	TI
Carbon Steel	B

# Data Sheet

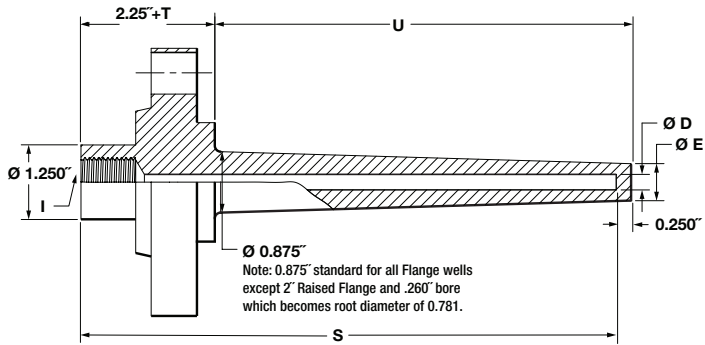
## Flanged Thermowells

ORDERING CODE	EXAMPLE:	10	W	0400	L	H	F	260	S	2	XNF	F	150	L0350
<b>Process Connection Size</b>														
	10 - 1"	10												
	15 - 1½"													
	20 - 2"													
<b>Thermowell</b>														
	W - Thermowell		W											
<b>U-Process Insertion Length</b>														
	0400 - 4"			0400										
	0700 - 7"													
	1000 - 10"													
	1300 - 13"													
	1600 - 16"													
	2200 - 22"													
<b>I-Instrument Connection</b>														
	Blank - ½ NPSM													
	2 - ½ NPT Female													
<b>Lagging</b>														
	Blank - No lagging													
	L - Lagging (For special lag length, see below)				L									
<b>Shank</b>														
	H - Tapered					H								
	S - Straight													
	R - Stepped													
<b>Process Connection</b>														
	F - Flanged						F							
<b>D-Bore Diameter</b>														
	260 - 0.260"						260							
	385 - 0.385"													
<b>Material (Refer to Table 2)</b>														
	C - 304 Stainless steel													
	S - 316 Stainless steel							S						
<b>Cap and Chain</b>														
	Blank - No cap and chain													
	1 - Brass													
	2 - Stainless steel									2				
<b>Options - (see Table 1 on page 1 for additional options (If choosing an option(s) must include an "X")</b>											X			
	NF - Stamp tag number on thermowell											NF		
<b>Flange Facing</b>														
	F - Flat											F		
	R - Raised													
	J - Ring joint													
<b>Flange Rating</b>														
	150 - 150												150	
	300 - 300													
	600 - 600													
	900 - 900													
	1500 - 1500													
	2500 - 2500													
<b>Special Lagging Length</b>														
	L - Lagging length × 100 (ex: 3.5" × 100 =L0350)													L0350

## Flanged Thermowells

### DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings



#### Flanged Tapered

D	E
0.260"	0.625"
0.385"	0.766"
Standard "U" Insertion Depth	Standard "S" Element Length
2	4
4	6
7	9
10	12
13	15
16	18
22	24

#### Thermowell Legend

I - Instrument connection ( $\frac{1}{2}''$  NPSM is STD.)

E - Tip O.D.

D - Bore diameter

U - Insertion depth

S - Instrument stem length or bore depth