

## 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
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
Iconel® 600	W
Titanium	TI
Carbon Steel	B

# Data Sheet

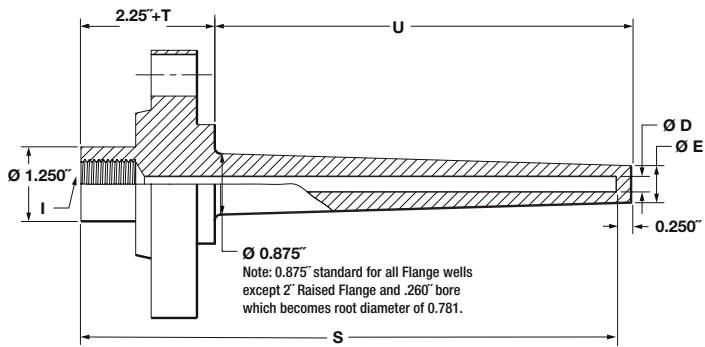
## Flanged Thermowells

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