

Data Sheet

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

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

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
CRN stamped on thermowell (includes W5)	UH
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



Flanged Thermowells

1", 1½", 2" flange sizes

KEY BENEFITS

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

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

All specifications are subject to change without notice. All sales subject to standard terms and conditions.

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Flanged Thermowells

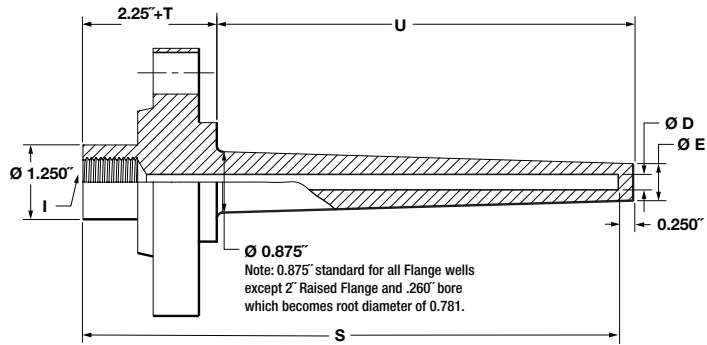
ORDERING CODE	EXAMPLE:	10	W	0400	L	H	F	260	S	2	XNF	F	150	L0350
Process Connection Size														
10 - 1"		10												
15 - 1½"														
20 - 2"														
Thermowell														
W - Thermowell			W											
U-Process Insertion Length														
0400 - 4"				0400										
0700 -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

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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 (½" NPSM is STD.)	
E - Tip O.D.	
D - Bore diameter	
U - Insertion depth	
S - Instrument stem length or bore depth	