

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



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, SS

TABLE 1

OPTIONS

CODE

Stamp tag number on thermowell

NF

SS 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

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 SS

C

316 SS

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

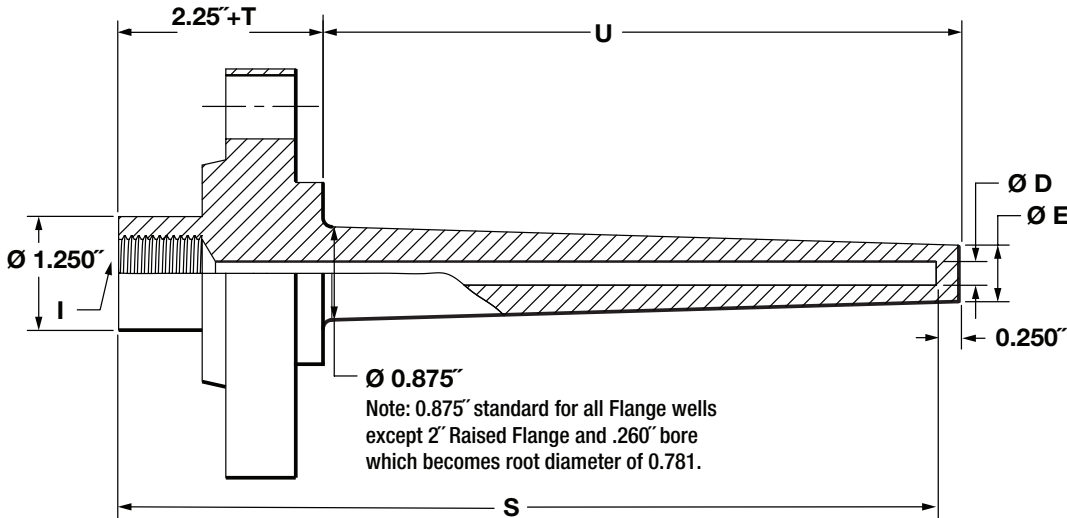
Flanged Thermowells

ORDERING CODE	EXAMPLE:	10	W	0400	L	H	F	260	S	2	XNF	F	150	L0350
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 SS														
S - 316 SS									S					
Cap and Chain														
Blank - No cap and chain														
1 - Brass														
2 - SS										2				
Options - (see Table 1 on page 1 for additional options (If choosing an option(s) must include an "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