

Sanitary Thermowells

FEATURES

- One piece bar stock construction
- Stamped with mill traceable material and heat number
- Testing and certifications including Wake Frequency Calculations ASME PTC 19.3 TW-2016
- Standard or customized dimensions



TYPICAL USES

- Pharmaceutical / Biotech
- Food and beverages

SPECIFICATIONS

Shank Style: Straight, Tapered or Stepped

Process Connection: 1", 1½" or 2" Tri-Clamp®

Instrument Connection: ½ NPSM or ½ NPT Female

Bore Size: 0.260" or 0.385"

Surface Finish: 8-12 Ra or 4-12 Ra

Lagging: 2": if U-dimension is <3"
3": if U-dimension is >3"

Cap and Chain: Brass or stainless steel

Sanitary Thermowells

1", 1½", 2" Tri-Clamp® sizes

KEY BENEFITS

- Protects instrument against corrosive effects and physical damage caused by media flow
- Permits instrument interchange or calibration check without disturbing/closing down the process
- Traceability 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-internal	W9
Clean for oxygen service	6B
Wake frequency calculation	W5
CRN stamped on thermowell (includes W5)	UH
4-12 Ra finish	PT
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)	MQ
NACE Certificate of Compliance	CD-5

TABLE 2

MATERIALS	CODE
304 Stainless steel	C
316 Stainless steel	S
Hastelloy® B/C	G/H
Carpenter® 20	D
Duplex 2205 Stainless steel	J
Super Duplex S32750	SD
Iconel® 600	W
Titanium	TI

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

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Sanitary Thermowells

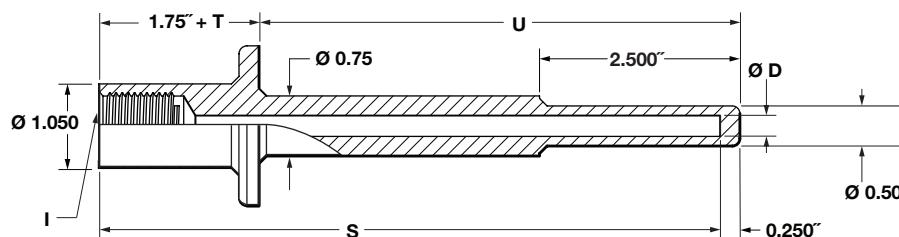
ORDERING CODE	Example:	15	W	0250		H	C	260	S	2	X6B	L0350
P-Process Connection Size												
10 - 1" Tri-Clamp®												
15 - 1½" Tri-Clamp®		15										
20 - 2" Tri-Clamp®												
Thermowell												
W - Thermowell				W								
U-Process Insertion Length												
0250 - 2½"				0250								
0450 - 4½"												
0750 - 7½"												
1050 - 10½"												
1350 - 13½"												
1650 - 16½"												
2250 - 22½"												
I-Instrument Connection												
Blank - ½ NPSM												
2 - ½ NPT Female												
T-Lagging												
Blank - No lagging												
L - Lagging (for special lag length, see below)												
Shank Type												
H - Tapered						H						
S - Straight												
R - Stepped												
Process Connection												
C - Sanitary							C					
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")												
6B - Clean for oxygen service										6B		
Special Lagging Length												
L - Lagging length x 100 (ex: 3.5" x 100 = L0350)											L0350	

Sanitary Thermowells

DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings

Sanitary Stepped Thermowell



Thermowell Legend

I - Instrument connection (½" NPSM is STD.)

E - Tip O.D.

D - Bore diameter

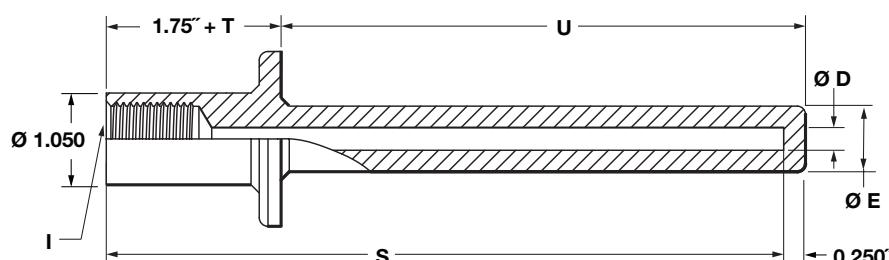
U - Insertion depth

S - Instrument stem length or bore depth

B - Root OD

T - Lag dimension when required

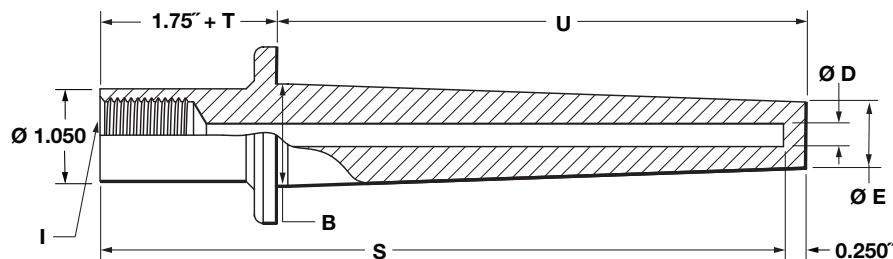
Sanitary Straight Thermowell



Sanitary Straight

E 0.260" Bore	E 0.385" Bore
0.5"	0.766"

Sanitary Tapered Thermowell



Sanitary Tapered

B	E 0.260" Bore	E 0.385" Bore
0.875"	0.625"	0.768"

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