Data Sheet

ASHCROFT® Trust the shield.®

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:	1/2 NPSM or 1/2 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

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				



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 2				
MATERIALS	CODE			
304 Stainless steel	С			
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			

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Sanitary Thermowells

ORDERING CODE Example:	15	W	0250			н	С	260	S	2	X6B	L035
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						Н						
S - Straight							-					
R - Stepped							-					
Process Connection												
C - Sanitary							С					
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 additio	nal optior	ns (If ch	oosing an	option(s) must in	clude a	n "X")				X	
6B - Clean for oxygen service											6B	
Special Lagging Length												-
L - Lagging length × 100 (ex: 3.5" × 100 = L03												

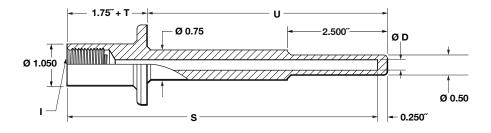
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DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings

Sanitary Stepped Thermowell

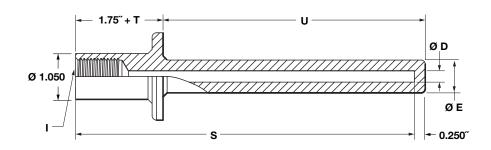


Thermowell Legend

I - Instrument connection (1/2" NPSM is STD.)

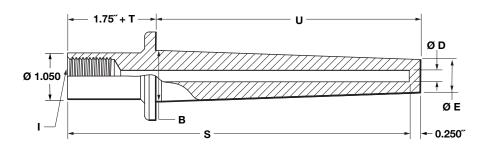
- E Tip O.D.
- D Bore diameter
- U Insertion depth
- S Instrument stem length or bore depth
- B Root OD
- T Lag dimension when required

Sanitary Straight Thermowell



Sanitary Straight				
E 0.260" Bore	E 0.385" Bore			
0.200 Bore	0.363 Bule			
0.5″	0.766"			

Sanitary Tapered Thermowell



Sanitary Tapered						
В	E 0.260″ Bore	E 0.385" Bore				
0.875"	0.625"	0.768"				