

Threaded Thermowells

Features

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

Typical Uses

- Chemical and petrochemical plants
- Water and wastewater temperature control
- Pharmaceutical / Biotech
- Food and beverage



Specifications

Shank Style: Tapered, straight, or stepped

Process Connection Size: ½, ¾, or 1 NPT Male

Instrument Connection: ½ NPSM or ½ NPT Female

Bore Size: 0.260" or 0.385"

Surface Finish: 16-32 Ra

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

Cap & Chain: Brass, 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
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 on carbon steel	MQ
NACE certificate of compliance	CD-5

Threaded Thermowells

½", ¾", 1" threaded 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
- 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 Stainless steel	J
Super Duplex S32750	SD
Inconel® 600	W
Titanium	TI
Carbon Steel	B

Contact Us

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ashcroft.com

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Threaded Thermowells

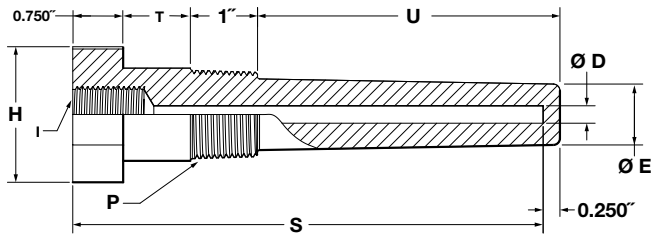
Ordering Code	Example:	75	W	0250	L	H	T	260	S	2	XNH	L0350
P-Process Connection Size												
50 - ½ NPT (N/A with U of 0162)												
75 - ¾ NPT Male												
10 - 1 NPT Male												
Thermowell												
W - Thermowell												
U-Process Insertion Length												
0100 - 1.000" U - 2.5" stem (only with 1/2 NPT process connection use Thermowell Style M)												
0162 - 1.625" U - 2.5" stem (only with 3/4 NPT process connection use Thermowell Style M)												
0250 - 2½"												
0450 - 4½"												
0750 - 7½"												
1050 - 10½"												
1350 - 13½"												
1650 - 16½"												
1950 - 19½"												
2250 - 22½"												
I-Instrument Connection												
Blank - ½ NPSM												
2 - ½ NPT Female												
T-Lagging												
Blank - No lagging												
L - Lagging (or special lag length, see below)												
Shank Type												
H - Tapered (N/A with U dimension 0162)												
S - Straight												
R - Stepped (N/A with U dimension 0162)												
Process Connection Type												
T - NPT Threaded												
M - Limited space threaded used with 1½" U only												
D-Bore Diameter												
260 - 0.260"												
385 - 0.385"												
Material												
AA - Brass												
B - Carbon steel												
C - 304 Stainless steel												
S - 316 Stainless steel												
Cap and Chain												
Blank - No cap and chain												
1 - Brass												
2 - Stainless steel												
Options (see Table 1 on page 1 for additional options (If choosing an option(s) must include an "X")												
NH - Stainless steel tag wired to thermowell												
Special Lagging Length												
L - Lagging length × 100 (ex: 3.5" × 100 = L0350)												

Threaded Thermowells

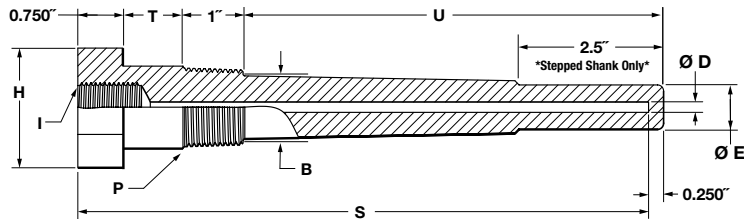
Dimensions

For reference only, consult Ashcroft for specific dimensional drawings

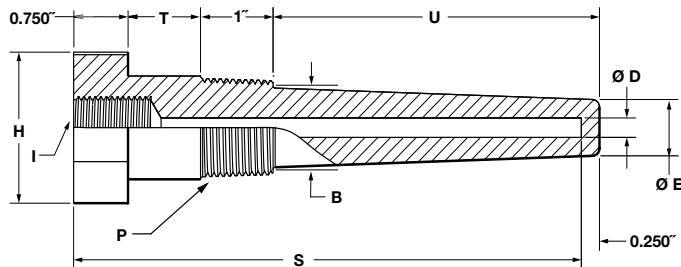
Threaded Straight Thermowell



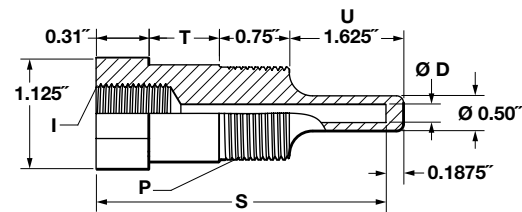
Threaded Stepped Thermowell



Threaded Tapered Thermowell



Limited Space



Threaded Straight - 0.260" & 0.385" Bore

P	H	E 0.260" Bore	E 0.385" Bore
1/2"	1.125"	0.50"	0.625"
3/4"	1.125"	0.50"	0.765"
1"	1.375"	0.50"	0.765"

Threaded Stepped - 0.260" & 0.385" Bore

P	H	B	E 0.260" Bore	E 0.385" Bore
1/2"	1.125"	0.625"	0.50"	—
3/4"	1.125"	0.75"	0.50"	0.625"
1"	1.375"	0.875"	0.50"	0.625"

Threaded Tapered - 0.260" & 0.385" Bore

P	H	B	E 0.260" Bore	E 0.385" Bore
1/2"	1.125"	0.625"	0.50"	—
3/4"	1.125"	0.875"	0.625"	0.766"
1"	1.375"	1.06"	0.625"	0.766"

Thermowell Legend

- I - Instrument connection (1/2" NPSM is standard)
- P - Process connection
- T - Lag dimension when required
- B - Root OD
- E - Tip OD
- D - Bore diameter
- U - Insertion depth
- S - Instrument stem length or bore depth
- H - Hex size