

## Data Sheet

# Socket Weld Thermowells

### FEATURES

- One piece bar stock construction
- Stamped with mill 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 pressure control
- Pharmaceutical / Biotech
- Food and beverages



**Socket Weld Thermowells**  
3/4", 1" socket weld sizes

### SPECIFICATIONS

Shank Style:	Tapered, straight, or stepped
Process Connection:	3/4", 1"
Instrument Connection:	1/2 NPSM, 1/2 NPT Female
Bore Size:	0.260", 0.385"
Surface Finish:	16-32 RA
Lagging:	2": if U-dimension is <3" 3": if U-dimension is >3"
Cap and Chain:	Brass, stainless steel

### 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 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

### Certificates

Certificate of Conformance (per order)	CD-1A
Physical and Chemical Material Test Report (MTR's)	W6
Positive Material Identification (PMI) N/A Carbon Steel	MQ
NACE Certificate of Compliance	CD-5

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

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## Socket Weld Thermowells

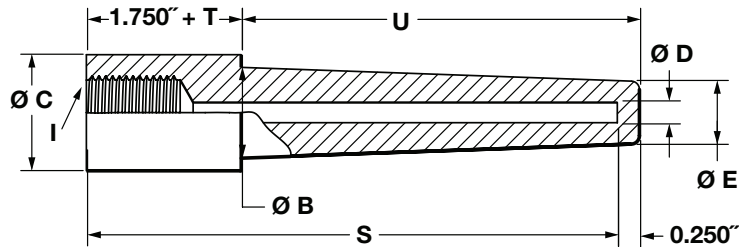
<b>ORDERING CODE</b>	<b>Example:</b>	75	W	0450	L	H	S	260	S	1	XNF	L0350
<b>Process Connection Size</b>												
75 - ¾" (socket weld only)		75										
10 - 1" (socket weld only)												
<b>Thermowell</b>												
W - Thermowell			W									
<b>U-Process Insertion Length</b>												
0250 - 2½"												
0450 - 4½"			0450									
0750 - 7½"												
1050 - 10½"												
1350 - 13½"												
1650 - 16½"												
2250 - 22½"												
<b>I-Instrument Connection</b>												
Blank - ½ NPSM												
2 - ½ NPT Female												
<b>T-Lagging</b>												
Blank - No lagging												
L - Lagging (For special lag length, see below)					L							
<b>Shank Type</b>												
H - Tapered						H						
S - Straight												
R - Stepped												
<b>Process Connection</b>												
S - Socket weld							S					
<b>D-Bore Diameter</b>												
260 - 0.260"								260				
385 - 0.385"												
<b>Material (Refer to Table 2)</b>												
C - 304 Stainless steel												
S - 316 Stainless steel									S			
<b>Cap and Chain</b>												
Blank - No cap and chain												
1 - Brass										1		
2 - Stainless Steel												
<b>Options - (see Table 1 on page 1 for additional options (If choosing an option(s) must include an "X")</b>												
NF - Stamp tag number on thermowell												NF
<b>Special Lagging Length</b>												
L - Lagging length × 100 (ex: 3.5" × 100 = L0350)												

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#### DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings



#### Socket Weld Tapered - 0.260 & 0.385 Bore

Pipe Size	C	B 0.260 Bore	B 0.385 Bore	E 0.260 Bore	E 0.385 Bore
3/4"	1.05"	0.78"	0.87"	0.625"	0.766"
1"	1.315"	1.03"	1.03"	0.625"	0.766"

DIMENSION (Inches)			PART NUMBER	
P	S	U	1/4" Bore	3/8" Bore
3/4 1	4	2 1/2	75W0250HS260	75W0250HS385
			10W0250HS260	10W0250HS385
3/4 1	6	4 1/2	75W0450HS260	75W0450HS385
			10W0450HS260	10W0450HS385
3/4 1	9	7 1/2	75W0750HS260	75W0750HS385
			10W0750HS260	10W0750HS385
3/4 1	12	10 1/2	75W1050HS260	75W1050HS385
			10W1050HS260	10W1050HS385
3/4 1	15	13 1/2	75W1350HS260	75W1350HS385
			10W1350HS260	10W1350HS385
3/4 1	18	16 1/2	75W1650HS260	75W1650HS385
			10W1650HS260	10W1650HS385
3/4 1	24	22 1/2	75W2250HS260	75W2250HS385
			10W2250HS260	10W2250HS385

#### 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

C - Hub diameter

B - Root OD