

Socket Weld Thermowells



A thermowell provides invaluable triple duty service, by protecting your delicate temperature sensing instrumentation.

- Protects your instrument against corrosive effects and resulting physical damage caused by media flow.
- Permits instrument interchange or calibration check without disturbing or closing down the process.
- Helps to contain dangerous or costly process fluids, when properly installed as an integral part of the vessel or piping.

Basic thermowell types are threaded, flanged, socket weld, weld-in, sanitary and van stone.

Shank configurations are available in straight, stepped or tapered styles. Extensive selection of materials are available to meet the demanding applications. Ashcroft's wide variety of thermowells are available for light duty, high pressures, high temperatures, or high velocity applications as well as meeting many general service industry needs.

- *One piece bar stock construction*
- *Large selection of mill traceable materials*
- *Stamped with material, heat number and date code*
- *Various test reports and certifications*
- *Wake Frequency Calculations per ASME PTC 19.3 -2010*

PRODUCT SPECIFICATIONS

Type:	Socket Weld
Shank Style:	Tapered
Bore Size:	.260, .385
Process	
Connection:	¾, 1
Materials:	304 SS, 316 SS. Carbon steel and others available on application
Instrument	
Connection:	½ NPSM standard, NPT or others optional

PRODUCT OPTIONS

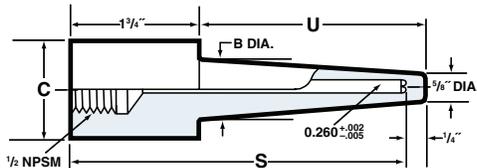
- SS tag
- Cap and chain
- Material test reports

TYPICAL CODE

75 SIZE		W U-DIMENSION		0750 U-DIMENSION		THREAD		LAGGING		H SHANK		S TYPE		260 BORE		C MATERIAL		CAP & CHAIN		VARIATION		SPECIAL LAGGING LENGTH	
CODE	INCHES	CODE	INCHES	CODE	INCHES	CODE	LAGGING	CODE	LAGGING	CODE	SHANK	CODE	TYPE	CODE	DIAMETER	CODE	TYPE	CODE	MATERIAL	CODE	MATERIAL	CODE	LENGTH
75	¾	0162	1 ⁵ / ₈	0250	2 ¹ / ₂	-	Without	S	Socket-Weld	260	.260	B	Carbon Steel	1	Brass								
10	1	0450	4 ¹ / ₂	0750	7 ¹ / ₂	L	With			385	.385	C	304	2	SS								
		1050	10 ¹ / ₂																				
		1350	13 ¹ / ₂																				
		1650	16 ¹ / ₂																				
		1950	19 ¹ / ₂																				
		2250	22 ¹ / ₂																				

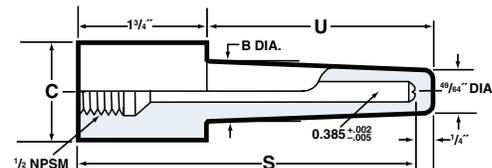
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Tapered Shank* 3/4" & 1" Pipe Sizes 1/4" Nominal Bore



*Fits 3000# Sockalet

Tapered Shank* 3/4" & 1" Pipe Sizes 3/8" Nominal Bore



*Fits 3000# Sockalet

Typical "S" dimensions for threaded wells

"U"	WITHOUT LAG	STANDARD LAG	
	"S"	"T"	"S"
2½	4	2	6
4½	6	3	9
7½	9	3	12
10½	12	3	15
13½	15	3	18
16½	18	—	—
19½	—	3	24
22½	24	—	—
SPECIAL LAG EXAMPLES:			
2½	4	5	9
4½	6	9	15

Legend:

- U = Shank length under threads
- P = Process connection NPT
- S = Bore depth = instrument element length including threads
- C = Hub diameter

TYPICAL CODE – 75W0750HT260C

75 SIZE		W U-DIMENSION		0750 THREAD	LAGGING	H SHANK	T TYPE	260 BORE	C MATERIAL	CAP & CHAIN	VARIATION	FACING	RATING	SPECIAL LAGGING LENGTH
CODE	INCHES	CODE	INCHES	CODE	LAGGING	CODE	TYPE	CODE	TYPE	CODE	TYPE	SEE NOTES 3 & 4	CODE	RATING #
50	½	0162	1 ⁵ / ₈	—	Without	T	NPT Thd.	AA	Brass				150	150
75	¾	0250	2½	L	With	W	Weld-In.	B	Carbon Steel				300	300
10	1	0450	4½			F	Flanged	C	304				600	600
12	1¼	0750	7½			V	Van Stone	S	316				1500	1500
15	1½	1050	10½			S	Socket-Weld						2500	2500
20	2	1350	13½			M	Limited Space Threaded							
30	3	1650	16½			G	Ground Joint							
40	4	1950	19½			C	Sanitary							
		2250	22½											
CODE	INTERNAL THD.	CODE	SHANK	CODE	DIAMETER	CODE	MATERIAL	CODE	FACING					SEE NOTE 2
—	½ NPSM	H	Tapered	260	.260	1	Brass	F	Flat					
2	½ NPT	S	Straight	385	.385	2	SS	R	Raised					
		R	Stepped					J	Ring-Joint					
		B	Built-up					L	Lap-Joint					