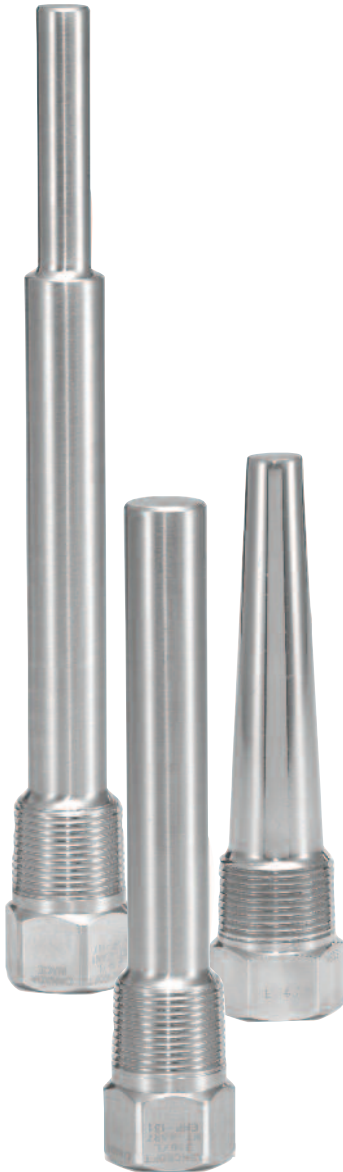


## Threaded Thermowells



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

<b>Type:</b>	Threaded
<b>Shank Style:</b>	Straight, Tapered, Stepped
<b>Bore Size:</b>	.260, .385
<b>Process</b>	
<b>Connection:</b>	1/2, 3/4, 1 NPT
<b>Materials:</b>	304 SS, 316 SS with many others available on application
<b>Instrument</b>	
<b>Connection:</b>	1/2 NPSM standard, NPT or others optional

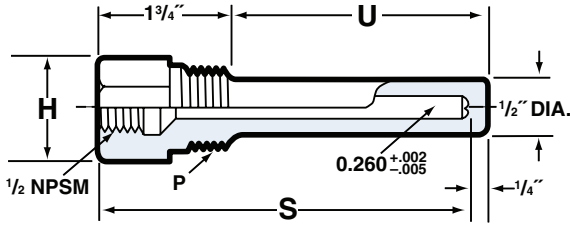
### PRODUCT OPTIONS

- Special bore diameters
- Additional process connections
- NPT threads for instrument connections
- Stamp tag numbers on thermowell
- SS tag
- Cap and chain
- Material test reports
- Wake frequency calculations

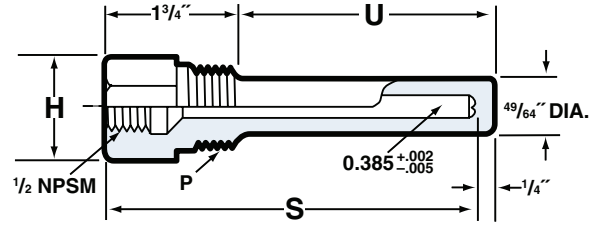
### TYPICAL CODE

75 SIZE		W	0750 U-DIMENSION		THREAD	LAGGING	H SHANK	T TYPE	260 BORE	C MATERIAL	CAP & CHAIN	VARIATION	SPECIAL LAGGING LENGTH
CODE	INCHES		CODE	INCHES		CODE	LAGGING	CODE	TYPE	CODE	TYPE		
50	1/2		0162	1 5/8		-	Without	T	NPT Thd.	AA	Brass		
75	3/4		0250	2 1/2		L	With			B	Carbon Steel		
10	1		0450	4 1/2						C	304		
			0750	7 1/2						S	316		
			1050	10 1/2									
			1350	13 1/2									
			1650	16 1/2									
			1950	19 1/2									
			2250	22 1/2									
					CODE	INTERNAL THD.							
					-	1/2 NPSM							
					2	1/2 NPT							
					CODE	SHANK							
					H	Tapered							
					S	Straight							
					R	Stepped							
					CODE	DIAMETER							
					260	.260							
					385	.385							
					CODE	MATERIAL							
					1	Brass							
					2	SS							

### Straight Shank 1/4" Nominal Bore



### Straight Shank 3/8" Nominal Bore



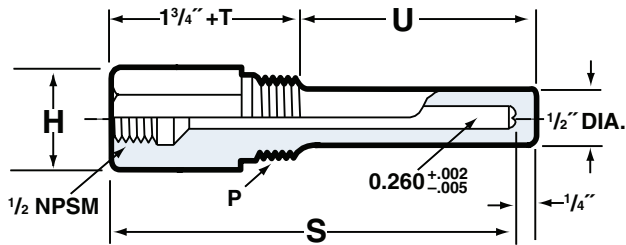
**Legend:** U = Shank length under threads    P = Process connection NPT    S = Bore depth = instrument element length including threads  
 B = Shank base diameter    H = Hex size across flats

Dimensions (inches)			Part Number
S	U	P	1/4" Bore
2 1/2	1 5/8	3/4	75W0162SM260
		1	10W0162SM260 <sup>(1)</sup>
4	2 1/2	1/2	50W0250ST260
		3/4	75W0250ST260
		1	10W0250ST260
6	4 1/2	1/2	50W0450ST260
		3/4	75W0450ST260
		1	10W0450ST260
9	7 1/2	1/2	50W0750ST260
		3/4	75W0750ST260
		1	10W0750ST260
12	10 1/2	1/2	50W1050ST260
		3/4	75W1050ST260
		1	10W1050ST260
15	13 1/2	1/2	50W1350ST260
		3/4	75W1350ST260
		1	10W1350ST260
18	16 1/2	1/2	50W1650ST260
		3/4	75W1650ST260
		1	10W1650ST260
24	22 1/2	1/2	50W2250ST260
		3/4	75W2250ST260
		1	10W2250ST260

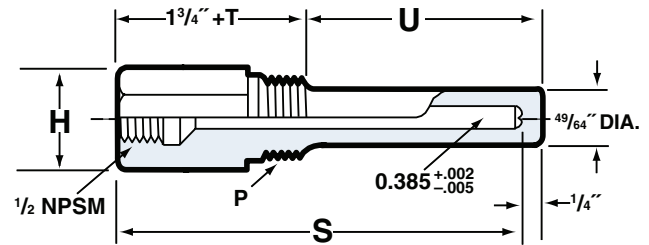
Dimensions (inches)			Part Number
S	U	P	3/8" Bore
2 1/2	1 5/8	3/4	75W0162SM385 <sup>(1)</sup>
		1	10W0162SM385 <sup>(1)</sup>
4	2 1/2	1/2	50W0250ST385
		3/4	75W0250ST385
		1	10W0250ST385
6	4 1/2	1/2	50W0450ST385
		3/4	75W0450ST385
		1	10W0450ST385
9	7 1/2	1/2	50W0750ST385
		3/4	75W0750ST385
		1	10W0750ST385
12	10 1/2	1/2	50W1050ST385
		3/4	75W1050ST385
		1	10W1050ST385
15	13 1/2	1/2	50W1350ST385
		3/4	75W1350ST385
		1	10W1350ST385
18	16 1/2	1/2	50W1650ST385
		3/4	75W1650ST385
		1	10W1650ST385
24	22 1/2	1/2	50W2250ST385
		3/4	75W2250ST385
		1	10W2250ST385

- (1) Limited space dimensions  
 Hex/threads 1 1/16"  
 Shank diameter: 1/2" for .260 bore  
                                   49/64" for .385 bore  
 Tip thickness .1875

### Straight Shank with Lagging Extensions 1/4" Nominal Bore



### Straight Shank with Lagging Extensions 3/8" Nominal Bore



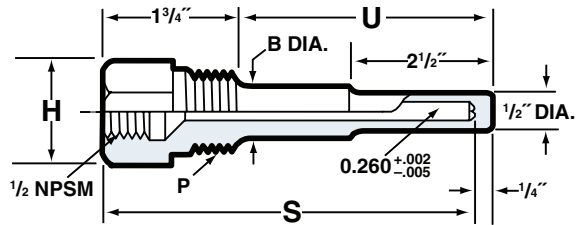
**Legend:** U = Shank length under threads    P = Process connection NPT    S = Bore depth = instrument element length including threads  
 B = Shank base diameter    H = Hex size across flats

Dimensions (inches)			Part Number
S	U	P	1/4" Bore
4	1 5/8	3/4	75W0162LSM260 <sup>(1)</sup>
		1	10W0162LSM260 <sup>(1)</sup>
6	2 1/2	1/2	50W0250LST260
		3/4	75W0250LST260
		1	10W0250LST260
9	4 1/2	1/2	50W0450LST260
		3/4	75W0450LST260
		1	10W0450LST260
12	7 1/2	1/2	50W0750LST260
		3/4	75W0750LST260
		1	10W0750LST260
15	10 1/2	1/2	50W1050LST260
		3/4	75W1050LST260
		1	10W1050LST260
18	13 1/2	1/2	50W1350LST260
		3/4	75W1350LST260
		1	10W1350LST260
24	19 1/2	1/2	50W1950LST260
		3/4	75W1950LST260
		1	10W1950LST260

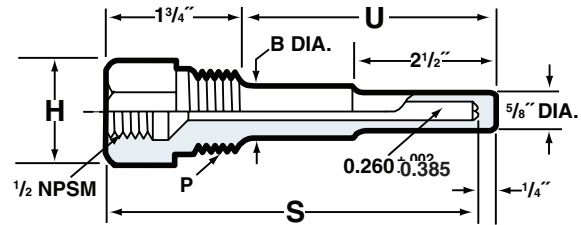
Dimensions (inches)			Part Number
S	U	P	3/8" Bore
4	1 5/8	3/4	75W0162LSM385 <sup>(1)</sup>
		1	10W0162LSM385 <sup>(1)</sup>
6	2 1/2	1/2	50W0250LST385
		3/4	75W0250LST385
		1	10W0250LST385
9	4 1/2	1/2	50W0450LST385
		3/4	75W0450LST385
		1	10W0450LST385
12	7 1/2	1/2	50W0750LST385
		3/4	75W0750LST385
		1	10W0750LST385
15	10 1/2	1/2	50W1050LST385
		3/4	75W1050LST385
		1	10W1050LST385
18	13 1/2	1/2	50W1350LST385
		3/4	75W1350LST385
		1	10W1350LST385
24	19 1/2	1/2	50W1950LST385
		3/4	75W1950LST385
		1	10W1950LST385

- (1) Limited space dimensions  
 Hex/threads 1 1/16"  
 Shank diameter: 1/2" for .260 bore  
 49/64" for .385 bore  
 Tip thickness .1875

### Stepped Shank 1/4" Nominal Bore



### Stepped Shank 3/8" Nominal Bore



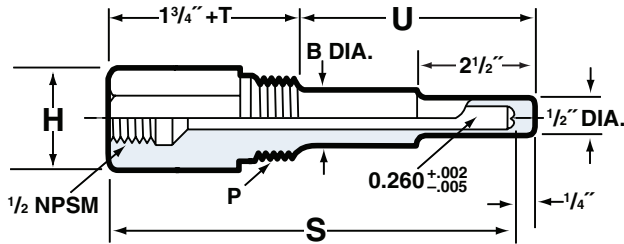
**Legend:** U = Shank length under threads    P = Process connection NPT    S = Bore depth = instrument element length including threads  
 B = Shank base diameter    H = Hex size across flats

Dimensions (inches)			Part Number
S	U	P	1/4" Bore
4	2 1/2	1/2	50W0250RT260
		3/4	75W0250RT260
		1	10W0250RT260
6	4 1/2	1/2	50W0450RT260
		3/4	75W0450RT260
		1	10W0450RT260
9	7 1/2	1/2	50W0750RT260
		3/4	75W0750RT260
		1	10W0750RT260
12	10 1/2	1/2	50W1050RT260
		3/4	75W1050RT260
		1	10W1050RT260
15	13 1/2	1/2	50W1350RT260
		3/4	75W1350RT260
		1	10W1350RT260
18	16 1/2	1/2	50W1650RT260
		3/4	75W1650RT260
		1	10W1650RT260
24	22 1/2	1/2	50W2250RT260
		3/4	75W2250RT260
		1	10W2250RT260

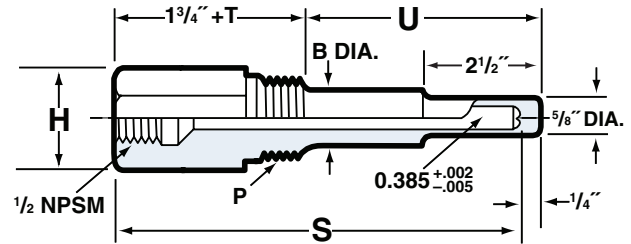
Dimensions (inches)			Part Number
S	U	P	3/8" Bore
4	2 1/2	1/2	50W0250RT385
		3/4	75W0250RT385
		1	10W0250RT385
6	4 1/2	1/2	50W0450RT385
		3/4	75W0450RT385
		1	10W0450RT385
9	7 1/2	1/2	50W0750RT385
		3/4	75W0750RT385
		1	10W0750RT385
12	10 1/2	1/2	50W1050RT385
		3/4	75W1050RT385
		1	10W1050RT385
15	13 1/2	1/2	50W1350RT385
		3/4	75W1350RT385
		1	10W1350RT385
18	16 1/2	1/2	50W1650RT385
		3/4	75W1650RT385
		1	10W1650RT385
24	22 1/2	1/2	50W2250RT385
		3/4	75W2250RT385
		1	10W2250RT385

P	H	B
1/2"	1.125"	.62"
3/4"	1.125"	.75"
1"	1.375"	.87"

### Stepped Shank with Lagging Extensions 1/4" Nominal Bore



### Stepped Shank with Lagging Extensions 3/8" Nominal Bore



**Legend:** U = Shank length under threads  
B = Shank base diameter

P = Process connection NPT  
H = Hex size across flats

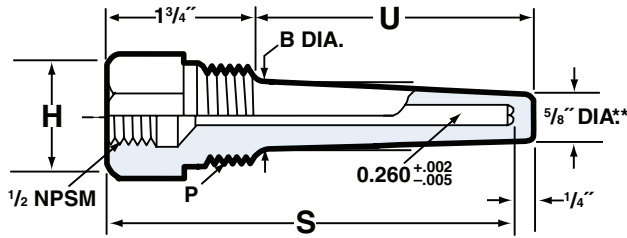
S = Bore depth = instrument element length  
including threads

Dimensions (inches)			Part Number
S	U	P	1/4" Bore
6	2 1/2	1/2	50W0250LRT260
		3/4	75W0250LRT260
		1	10W0250LRT260
9	4 1/2	1/2	50W0450LRT260
		3/4	75W0450LRT260
		1	10W0450LRT260
12	7 1/2	1/2	50W0750LRT260
		3/4	75W0750LRT260
		1	10W0750LRT260
15	10 1/2	1/2	50W1050LRT260
		3/4	75W1050LRT260
		1	10W1050LRT260
18	13 1/2	1/2	50W1350LRT260
		3/4	75W1350LRT260
		1	10W1350LRT260
24	19 1/2	1/2	50W1950LRT260
		3/4	75W1950LRT260
		1	10W1950LRT260

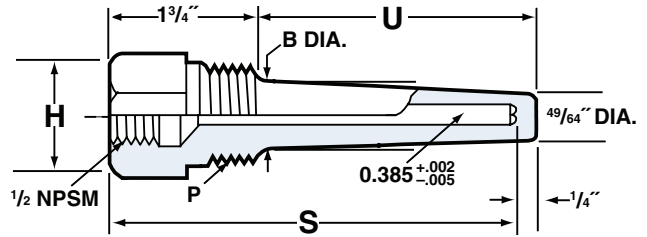
Dimensions (inches)			Part Number
S	U	P	3/8" Bore
6	2 1/2	1/2	50W0250LRT385
		3/4	75W0250LRT385
		1	10W0250LRT385
9	4 1/2	1/2	50W0450LRT385
		3/4	75W0450LRT385
		1	10W0450LRT385
12	7 1/2	1/2	50W0750LRT385
		3/4	75W0750LRT385
		1	10W0750LRT385
15	10 1/2	1/2	50W1050LRT385
		3/4	75W1050LRT385
		1	10W1050LRT385
18	13 1/2	1/2	50W1350LRT385
		3/4	75W1350LRT385
		1	10W1350LRT385
24	19 1/2	1/2	50W1950LRT385
		3/4	75W1950LRT385
		1	10W1950LRT385

P	H	B
1/2"	1.125"	.62"
3/4"	1.125"	.75"
1"	1.375"	.87"

### Tapered Shank 1/4" Nominal Bore



### Tapered Shank 3/8" Nominal Bore



**Legend:** U = Shank length under threads P = Process connection NPT  
 B = Shank base diameter H = Hex size across flats

S = Bore depth = instrument element length including threads

Dimensions (inches)			Part Number
S	U	P**	1/4" Bore
4	2 1/2	1/2	50W0250HT260
		3/4	75W0250HT260
		1	10W0250HT260
6	4 1/2	1/2	50W0450HT260
		3/4	75W0450HT260
		1	10W0450HT260
9	7 1/2	1/2	50W0750HT260
		3/4	75W0750HT260
		1	10W0750HT260
12	10 1/2	1/2	50W1050HT260
		3/4	75W1050HT260
		1	10W1050HT260
15	13 1/2	1/2	50W1350HT260
		3/4	75W1350HT260
		1	10W1350HT260
18	16 1/2	1/2	50W1650HT260
		3/4	75W1650HT260
		1	10W1650HT260
24	22 1/2	1/2	50W2250HT260
		3/4	75W2250HT260
		1	10W2250HT260

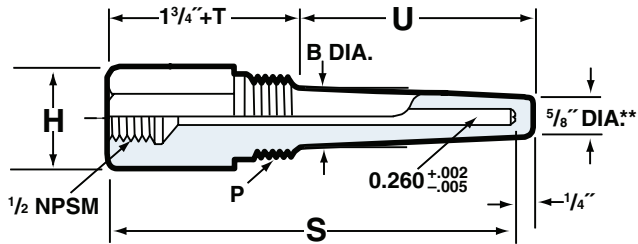
\*\*For 1/2" process, tip diameter is 1/2"

Dimensions (inches)			Part Number
S	U	P**	3/8" Bore
4	2 1/2	1/2	50W0250HT385
		3/4	75W0250HT385
		1	10W0250HT385
6	4 1/2	1/2	50W0450HT385
		3/4	75W0450HT385
		1	10W0450HT385
9	7 1/2	1/2	50W0750HT385
		3/4	75W0750HT385
		1	10W0750HT385
12	10 1/2	1/2	50W1050HT385
		3/4	75W1050HT385
		1	10W1050HT385
15	13 1/2	1/2	50W1350HT385
		3/4	75W1350HT385
		1	10W1350HT385
18	16 1/2	1/2	50W1650HT385
		3/4	75W1650HT385
		1	10W1650HT385
24	22 1/2	1/2	50W2250HT385
		3/4	75W2250HT385
		1	10W2250HT385

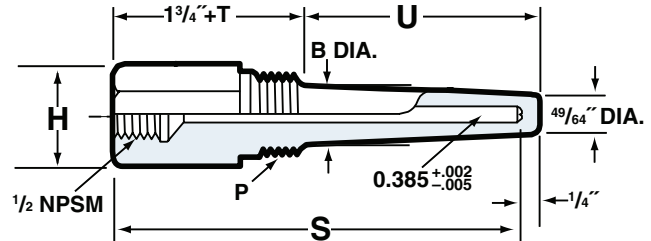
\*\*For 1/2" process, tip diameter is 1/2"

P	H	B
1/2"	1.125"	.62"
3/4"	1.125"	.87"
1"	1.375"	1.06"

### Tapered Shank with Lagging Extensions 1/4" Nominal Bore



### Tapered Shank with Lagging Extensions 3/8" Nominal Bore



**Legend:** U = Shank length under threads    P = Process connection NPT    S = Bore depth = instrument element length including threads  
 B = Shank base diameter    H = Hex size across flats

Dimensions (inches)			Part Number
S	U	P**	1/4" Bore
6	2 1/2	1/2	50W0250LHT260
		3/4	75W0250LHT260
		1	10W0250LHT260
9	4 1/2	1/2	50W0450LHT260
		3/4	75W0450LHT260
		1	10W0450LHT260
12	7 1/2	1/2	50W0750LHT260
		3/4	75W0750LHT260
		1	10W0750LHT260
15	10 1/2	1/2	50W1050LHT260
		3/4	75W1050LHT260
		1	10W1050LHT260
18	13 1/2	1/2	50W1350LHT260
		3/4	75W1350LHT260
		1	10W1350LHT260
24	19 1/2	1/2	50W1950LHT260
		3/4	75W1950LHT260
		1	10W1950LHT260

\*\*For 1/2" process, tip diameter is 1/2"

Dimensions (inches)			Part Number
S	U	P**	3/8" Bore
6	2 1/2	1/2	50W0250LHT385
		3/4	75W0250LHT385
		1	10W0250LHT385
9	4 1/2	1/2	50W0450LHT385
		3/4	75W0450LHT385
		1	10W0450LHT385
12	7 1/2	1/2	50W0750LHT385
		3/4	75W0750LHT385
		1	10W0750LHT385
15	10 1/2	1/2	50W1050LHT385
		3/4	75W1050LHT385
		1	10W1050LHT385
18	13 1/2	1/2	50W1350LHT385
		3/4	75W1350LHT385
		1	10W1350LHT385
24	19 1/2	1/2	50W1950LHT385
		3/4	75W1950LHT385
		1	10W1950LHT385

\*\*For 1/2" process, tip diameter is 1/2"

P	H	B
1/2"	1.125"	.62"
3/4"	1.125"	.87"
1"	1.375"	1.06"