

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

Type:	Threaded
Shank Style:	Straight, Tapered, Stepped
Bore Size:	.260, .385
Process	
Connection:	½, ¾, 1 NPT
Materials:	304 SS, 316 SS with many others available on application
Instrument	
Connection:	½ 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

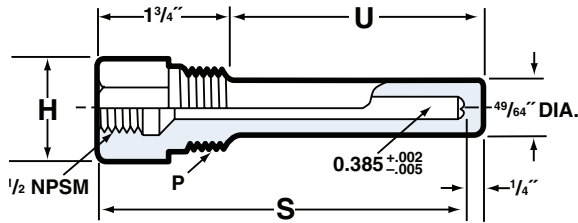
75 SIZE		W	0750 U-DIMENSION		THREAD	LAGGING	H SHANK	T TYPE	260 BORE	C MATERIAL	CAP & CHAIN	VARIAION	SPECIAL LAGGING LENGTH	
CODE	INCHES		CODE	INCHES		CODE	LAGGING	CODE	TYPE	CODE	TYPE			
50	½		0162*	1⅝		-	Without	T	NPT Thd.	AA	Brass			
75	¾		0250	2½		L	With	M*	Ltd. Space	B	Carbon Steel			
10	1		0450	4½						C	304			
			0750	7½						S	316			
			1050	10½										
			1350	13½										
			1650	16½										
			1950	19½										
			2250	22½										
					CODE	INTERNAL THD.		CODE	SHANK	CODE	DIAMETER		CODE	MATERIAL
					-	½ NPSM		H	Tapered	260	.260		1	Brass
					2	½ NPT		S	Straight	385	.385		2	SS
								R	Stepped					

*1-5/8 U must be paired with M (Ltd. Space) Type

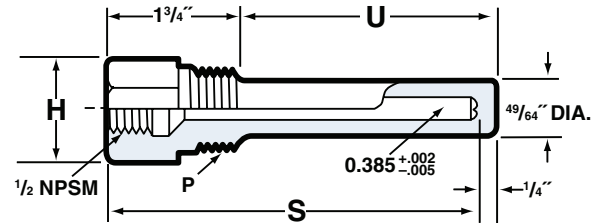
All specifications are subject to change without notice.
 All sales subject to standard terms and conditions.
 © Ashcroft Inc. 2017 Rev. 04/17

Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA
 Tel: 203-378-8281 • Fax: 203-385-0408
 email: info@ashcroft.com • www.ashcroft.com

Straight Shank 1/4" Nominal Bore



Straight Shank 3/8" Nominal Bore



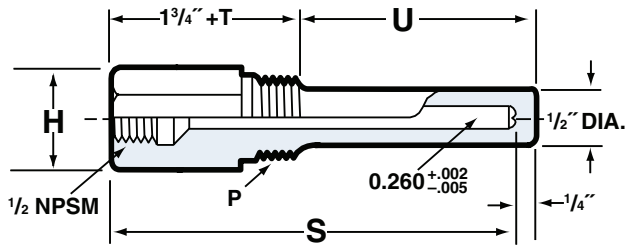
Legend: U = Shank length under threads P = Process connection NPT S = Bore depth = instrument element length including threads
 B = Shank base diameter H = Hex size across flats

Dimensions (inches)			Part Number
S	U	P	1/4" Bore
2 1/2	1 5/8	3/4	75W0162SM260
		1	10W0162SM260 ⁽¹⁾
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

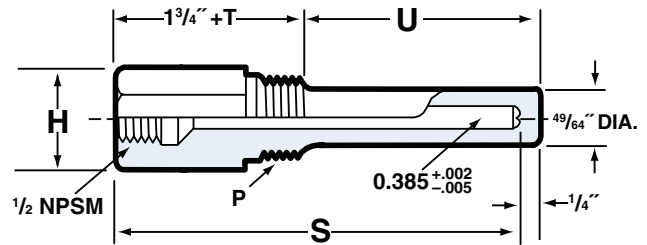
Dimensions (inches)			Part Number
S	U	P	3/8" Bore
2 1/2	1 5/8	3/4	75W0162SM385 ⁽¹⁾
		1	10W0162SM385 ⁽¹⁾
4	2 1/2	1/2	50W0250ST385
		3/4	75W0250ST385
		1	10W0250ST385
6	4 1/2	1/2	50W0450ST385
		3/4	75W0450ST385
		1	10W0450ST385
9	7 1/2	1/2	50W0750ST385
		3/4	75W0750ST385
		1	10W0750ST385
12	10 1/2	1/2	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



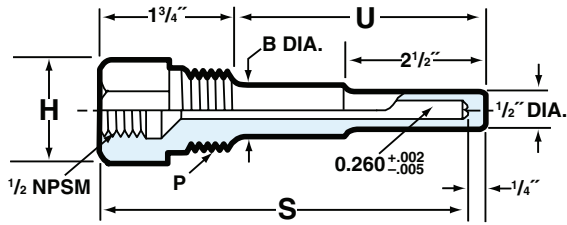
Legend: U = Shank length under threads P = Process connection NPT S = Bore depth = instrument element length including threads
B = Shank base diameter H = Hex size across flats

Dimensions (inches)			Part Number
S	U	P	1/4" Bore
4	1 5/8	3/4	75W0162LSM260 ⁽¹⁾
		1	10W0162LSM260 ⁽¹⁾
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

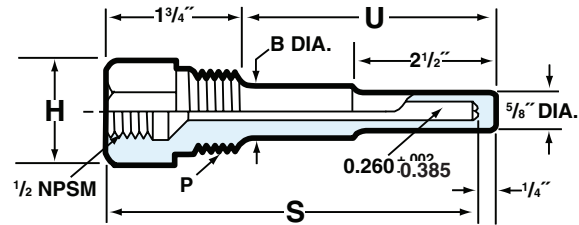
Dimensions (inches)			Part Number
S	U	P	3/8" Bore
4	1 5/8	3/4	75W0162LSM385 ⁽¹⁾
		1	10W0162LSM385 ⁽¹⁾
6	2 1/2	1/2	50W0250LST385
		3/4	75W0250LST385
		1	10W0250LST385
9	4 1/2	1/2	50W0450LST385
		3/4	75W0450LST385
		1	10W0450LST385
12	7 1/2	1/2	50W0750LST385
		3/4	75W0750LST385
		1	10W0750LST385
15	10 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



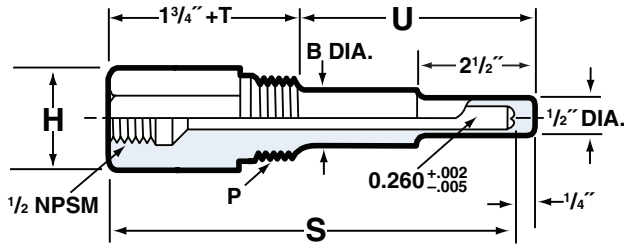
Legend: U = Shank length under threads P = Process connection NPT S = Bore depth = instrument element length including threads
 B = Shank base diameter H = Hex size across flats

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

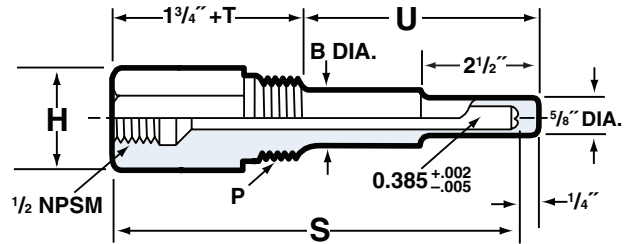
Dimensions (inches)			Part Number
S	U	P	3/8" Bore
4	2 1/2	1/2	50W0250RT385
		3/4	75W0250RT385
		1	10W0250RT385
6	4 1/2	1/2	50W0450RT385
		3/4	75W0450RT385
		1	10W0450RT385
9	7 1/2	1/2	50W0750RT385
		3/4	75W0750RT385
		1	10W0750RT385
12	10 1/2	1/2	50W1050RT385
		3/4	75W1050RT385
		1	10W1050RT385
15	13 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 P = Process connection NPT
 B = Shank base diameter H = Hex size across flats

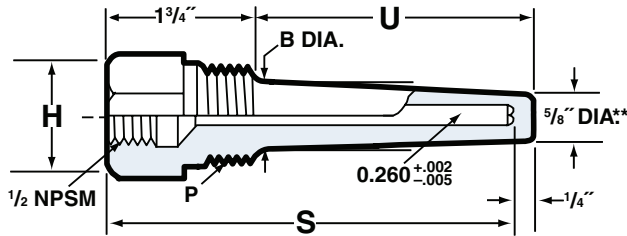
S = Bore depth = instrument element length including threads

Dimensions (inches)			Part Number
S	U	P	1/4" Bore
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

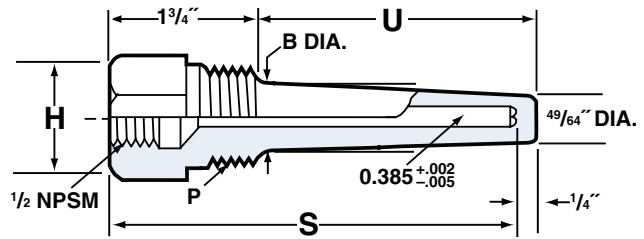
Dimensions (inches)			Part Number
S	U	P	3/8" Bore
6	2 1/2	1/2	50W0250LRT385
		3/4	75W0250LRT385
		1	10W0250LRT385
9	4 1/2	1/2	50W0450LRT385
		3/4	75W0450LRT385
		1	10W0450LRT385
12	7 1/2	1/2	50W0750LRT385
		3/4	75W0750LRT385
		1	10W0750LRT385
15	10 1/2	1/2	50W1050LRT385
		3/4	75W1050LRT385
		1	10W1050LRT385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

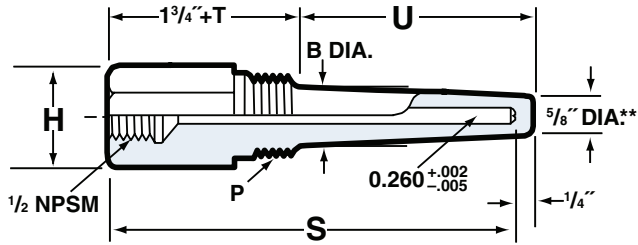
**For 1/2" process, tip diameter is 1/2"

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

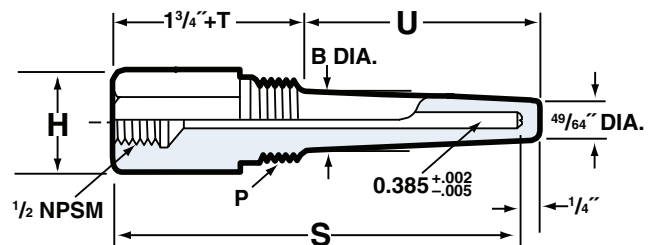
**For 1/2" process, tip diameter is 1/2"

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"