



# THERMOWELLS

United Electric Controls is  
ISO 9001:2015 certified



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**BAR STOCK, NPT CONNECTION, NO LAG**

**How to build a part number:**

Select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Consult UE-AST for custom solutions.

PROCESS CONNECTION	STYLE	BORE	WELL LENGTH	WELL MATERIAL	OPTIONS
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**PROCESS CONNECTION (P)**

- 1 - 1/2" NPT
- 2 - 3/4" NPT
- 3 - 1" NPT
- 5 - 1-1/2" NPT

**STYLE**

- S - Stepped stem (0.260" bore only; for straight stem, see Options)
- H - Tapered stem

**BORE**

- 260 - 0.260" bore
- 385 - 0.385" bore

**WELL LENGTH** (in inches)\*

L# - Specify length of thermowell (e.g., L4=4")

Standard lengths:

- L4 - L=4"; U=2.5"                      L6 - L=6"; U=4.5"
- L9 - L=9"; U=7.5"                      L12 - L=12"; U=10.5"
- L15 - L=15"; U=13.5"                  L18 - L=18"; U=16.5"
- L24 - L=24"; U=22.5"

Specify other (L = U + 1.5")

(\* ) Thermowells with an overall length of 42" or less are machined from SOLID BAR STOCK. Thermowells with an overall length greater than 42" are constructed using a welded design and are available in straight, stepped or tapered design. However, for tapered only the last 16" are tapered.

**WELL MATERIAL**

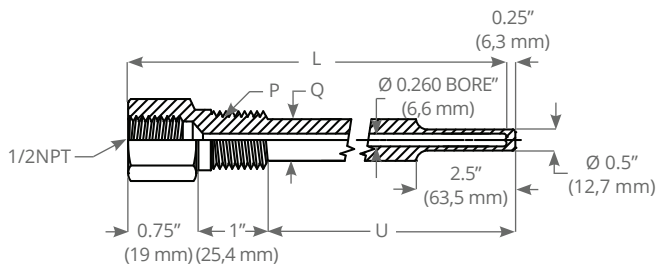
- - 304 stainless steel
- 310 - 310 stainless steel
- 316 - 316 stainless steel
- INC - Inconel 600®
- 321 - 321 stainless steel
- ALUM - Aluminum
- HAST - Hastelloy C®
- TTNM - Titanium
- 316L - 316L stainless steel
- 400 - Monel 400®
- CS - Carbon steel
- F11 - F11 carbon steel (forged)
- F22 - F22 carbon steel (forged)
- F91 - F91 carbon steel (forged)
- A20 - Alloy 20
- BRASS - Brass

**OPTIONS**

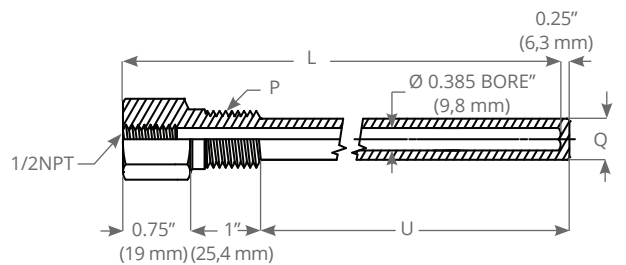
- TW01 - Stainless steel cap and chain assembly
- TW02 - Brass cap and chain assembly
- TAG2 - Stamped tag #
- STRT - Straight stem
- MTR1 - Material Test Report
- WFC1 - Wake Frequency Calculation

PROCESS CONNECTION =	ROOT DIAMETER (Q)			
	1/2" NPT	3/4" NPT	1" NPT	1-1/2" NPT
S260 and S385	.63"	.75"	.88"	.88"
H260 and H385	.63"	.88"	1.06"	1.63"

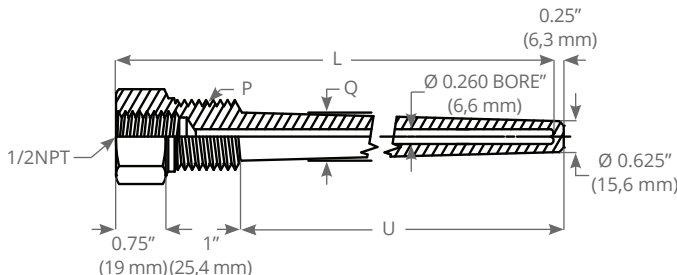
Wake Frequency Calculations are available on all thermowell designs. Contact UE-AST.



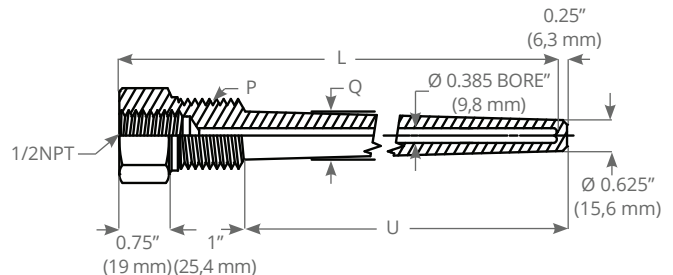
**STYLE S260 (stepped)**



**STYLE S385**



**STYLE H260**



**STYLE H385**

## BAR STOCK, NPT CONNECTION WITH LAG

### How to build a part number:

Select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Consult UE-AST for custom solutions.

PROCESS CONNECTION	STYLE	BORE	WELL LENGTH	LAG EXTENSION	WELL MATERIAL	OPTIONS

#### PROCESS CONNECTION (P)

1 - 1/2" NPT                      3 - 1" NPT  
2 - 3/4" NPT                     5 - 1-1/2" NPT

#### STYLE

**SL** - NPT connection, stepped stem with lag extension (for straight stem, see Options)  
**HL** - NPT connection, tapered stem, with lag extension

#### BORE

**260** - 0.260" bore                      **385** - 0.385" bore

#### WELL LENGTH (in inches)\*

**L#** - Specify length of thermowell (e.g., L9=9")  
Standard lengths:

	LENGTH (L) =	U =	
		IF T = 2"	IF T = 3"
<b>L6</b>	6"	2.5"	1.5"
<b>L9</b>	9"	5.5"	4.5"
<b>L12</b>	12"	8.5"	7.5"
<b>L15</b>	15"	11.5"	10.5"
<b>L18</b>	18"	14.5"	13.5"
<b>L24</b>	24"	20.5"	19.5"

Specify other (L = U+T+1.5")

(\* ) Thermowells with an overall length of 42" or less are machined from SOLID BAR STOCK. Thermowells with an overall length greater than 42" are constructed using a welded design and are available in straight, stepped or tapered design. However, for tapered only the last 16" are tapered.

#### LAG EXTENSION (in inches)

**T#** - Specify length of lagging (e.g., T2 = 2" lag)

**T2** - 2"    **T3** - 3"  
Specify other

#### WELL MATERIAL

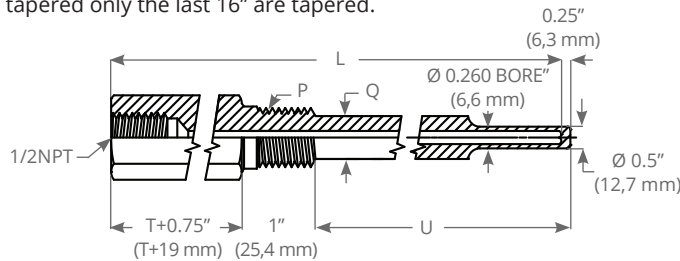
---- 304 stainless steel                      **316L** - 316L stainless steel  
**310** - 310 stainless steel                     **400** - Monel 400®  
**316** - 316 stainless steel                     **CS** - Carbon steel  
**INC** - Inconel 600®  
**321** - 321 stainless steel                     **F11** - F11 carbon steel (forged)  
**ALUM** - Aluminum                            **F22** - F22 carbon steel (forged)  
**HAST** - Hastelloy C®                         **F91** - F91 carbon steel (forged)  
**TTNM** - Titanium                              **A20** - Alloy 20  
**BRASS** - Brass

#### OPTIONS

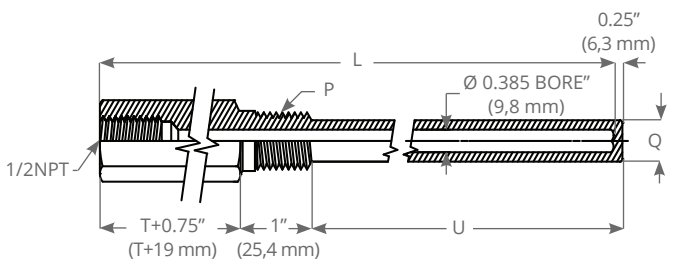
**TW01** - Stainless steel cap and chain assembly  
**TW02** - Brass cap and chain assembly  
**TAG2** - Stamped tag #  
**STRT** - Straight stem  
**MTR1** - Material Test Report  
**WFC1** - Wake Frequency Calculation

PROCESS CONNECTION =	ROOT DIAMETER (Q)			
	1/2" NPT	3/4" NPT	1" NPT	1-1/2" NPT
<b>SL260 and SL385</b>	.63"	.75"	.88"	.88"
<b>HL260 and HL385</b>	.68"	.88"	1.06"	1.63"

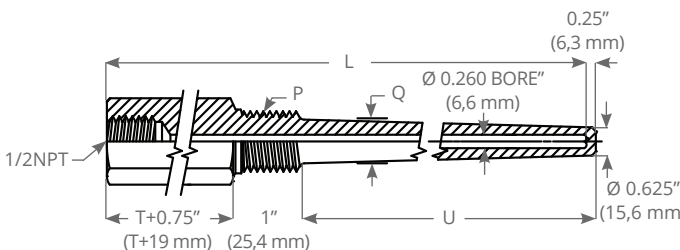
**Wake Frequency Calculations** are available on all thermowell designs. Contact UE-AST.



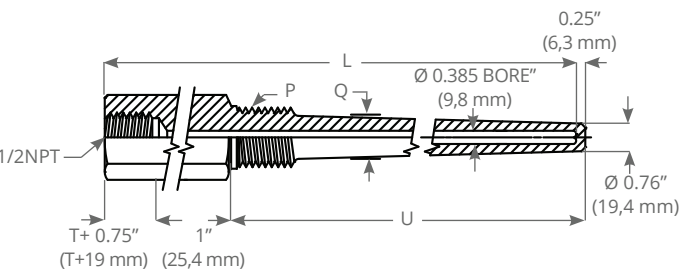
**STYLE SL260**



**STYLE SL385**



**STYLE HL260**



**STYLE HL385**

**BAR STOCK, NPT CONNECTION, LIMITED SPACE**

**How to build a part number:**

Select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Consult UE-AST for custom solutions.

PROCESS CONNECTION	STYLE	BORE	WELL MATERIAL	OPTIONS

**PROCESS CONNECTION (P)**

- 1 - 1/2" NPT
- 2 - 3/4" NPT
- 3 - 1" NPT

**STYLE**

LS - Limited space, straight stem

**BORE**

- 260 - 0.260" bore
- 385 - 0.385" bore

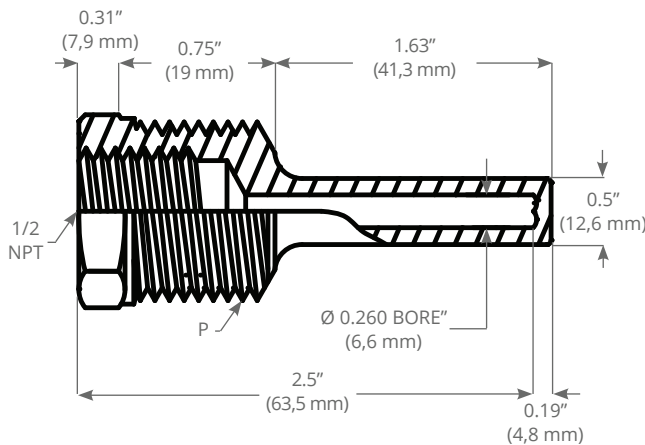
**WELL MATERIAL**

- 304 stainless steel
- 310 - 310 stainless steel
- 316 - 316 stainless steel
- INC - Inconel 600®
- 321 - 321 stainless steel
- ALUM - Aluminum
- HAST - Hastelloy C®
- TTNM - Titanium
- 316L - 316L stainless steel
- 400 - Monel 400®
- CS - Carbon steel
- F11 - F11 carbon steel (forged)
- F22 - F22 carbon steel (forged)
- F91 - F91 carbon steel (forged)
- A20 - Alloy 20
- BRASS - Brass

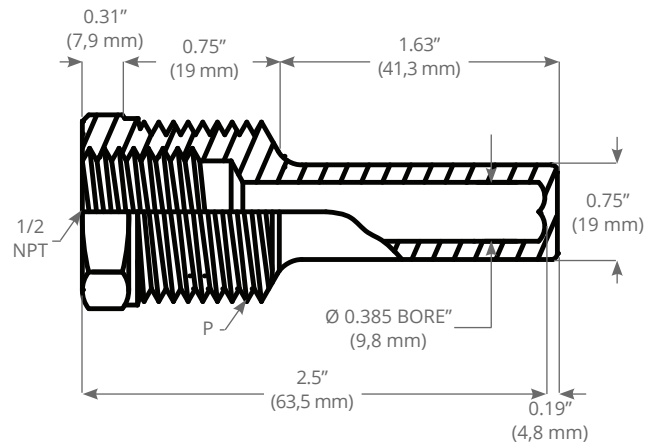
**OPTIONS**

- TW01 - Stainless steel cap and chain assembly
- TW02 - Brass cap and chain assembly
- TAG2 - Stamped tag #
- MTR1 - Material Test Report

**Wake Frequency Calculations** are available on all thermowell designs. Contact UE-AST.



**STYLE LS260**



**STYLE LS385**

## BAR STOCK, FLANGE CONNECTION

### How to build a part number:

Select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Consult UE-AST for custom solutions.

STYLE	BORE	INSERTION LENGTH	WELL & FLANGE MATERIAL	FLANGE SIZE	FLANGE RATING	FLANGE TYPE	OPTIONS
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#### STYLE

**F** - Flanged connection, stepped stem (for straight stem, see Options)  
**FH** - Flanged connection, tapered stem

#### BORE

**260** - 0.260" bore  
**385** - 0.385" bore

#### INSERTION LENGTH (in inches)\*

**U#** - Specify length below the flange (e.g., U4 = 4")

Standard lengths:

**U4** - U=4"; L=6"

**U10** - U=10"; L=12"

**U16** - U=16"; L=18"

**U7** - U=7"; L=9"

**U13** - U=13"; L=15"

**U22** - U=22"; L=24"

Specify other (L = U + 2")

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#### WELL AND FLANGE MATERIAL

--- - 304 stainless steel

**310** - 310 stainless steel

**316** - 316 stainless steel

**INC** - Inconel 600®

**321** - 321 stainless steel

**ALUM** - Aluminum

**HAST** - Hastelloy C®

**TTNM** - Titanium

**316L** - 316L stainless steel

**400** - Monel 400®

**CS** - Carbon steel

**F11** - F11 carbon steel (forged)

**F22** - F22 carbon steel (forged)

**F91** - F91 carbon steel (forged)

**A20** - Alloy 20

**BRASS** - Brass

#### FLANGE SIZE

**1** - 1" flange      **1.5** - 1.5" flange

**2** - 2" flange      **3** - 3" flange

**4** - 4" flange

#### FLANGE RATING

**150** - 150# rating      **300** - 300# rating

**600** - 600# rating      **900/1500** - 900/1500# rating

#### FLANGE TYPE

**RF** - Welded, raised face (standard)

**FF** - Welded, flat face

**RTJ** - Ring type joint

#### OPTIONS

**TW01** - Stainless steel cap and chain assembly

**TW02** - Brass cap and chain assembly

**TAG2** - Stamped tag #

**STRT** - Straight stem

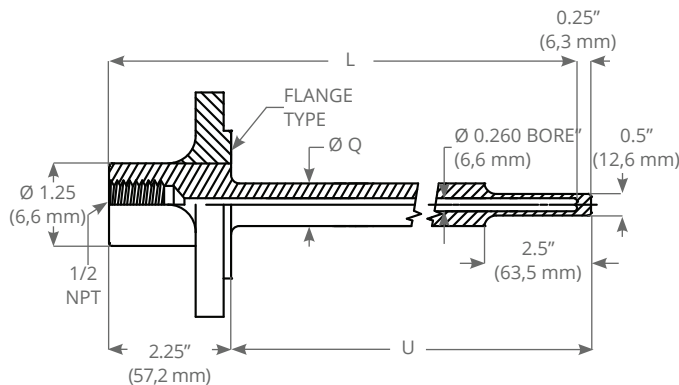
**MTR1** - Material Test Report

**WFC1** - Wake Frequency Calculation

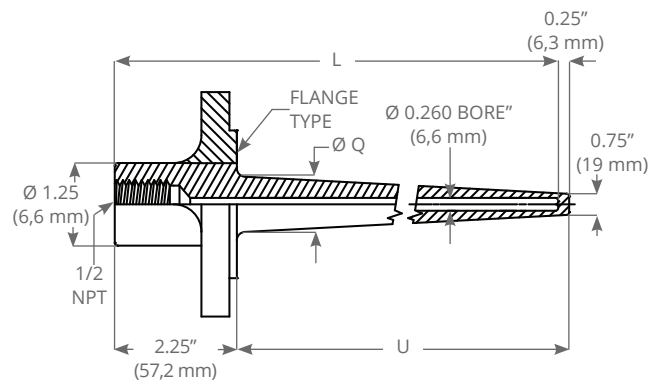
**TFLN** - Teflon sleeve or coating

	ROOT DIAMETER (Q)
<b>F260</b>	0.75"
<b>F385</b>	0.75"
<b>FH260 &amp; 385</b>	1" flange = .88" 1.5" flange = 1.06" All others = 1.25"

**Wake Frequency Calculations** are available on all thermowell designs. Contact UE-AST.



STYLE F260



STYLE FH260

**BAR STOCK, SOCKET-WELD CONNECTION, NO LAG**

**How to build a part number:**

Select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Consult UE-AST for custom solutions.

PROCESS CONNECTION	STYLE	BORE	WELL LENGTH	WELL MATERIAL	OPTIONS
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**PROCESS CONNECTION (P)**

- 2 - 3/4" pipe (OD = 1.05")
- 3 - 1" pipe (OD = 1.315")
- 5 - 1-1/2" pipe (OD = 1.90")

**STYLE**

- SW - Socket-weld connection, stepped stem, no lag (for straight stem, see Options)
- SWH - Socket-weld connection, tapered stem, no lag

**BORE**

- 260 - 0.260" bore
- 385 - 0.385" bore

**WELL LENGTH (in inches)\***

- L# - Specify length of thermowell (e.g., L4 = 4")
- Standard lengths:
  - L4 - L=4"; U=2.5"
  - L9 - L=9"; U=7.5"
  - L15 - L=15"; U=13.5"
  - L24 - L=24"; U=22.5"
  - L6 - L=6"; U=4.5"
  - L12 - L=12"; U=10.5"
  - L18 - L=18"; U=16.5"
- Specify other (L = U+1.5")

(\*) Thermowells with an overall length of 42" or less are machined from SOLID BAR STOCK. Thermowells with an overall length greater than 42" are constructed using a welded design and are available in straight, stepped or tapered design. However, for tapered only the last 16" are tapered.

**WELL MATERIAL**

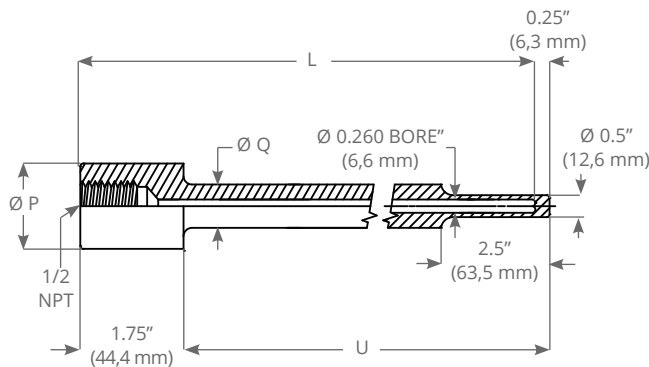
- - 304 stainless steel
- 310 - 310 stainless steel
- 316 - 316 stainless steel
- INC - Inconel 600®
- 321 - 321 stainless steel
- ALUM - Aluminum
- HAST - Hastelloy C®
- TTNM - Titanium
- 316L - 316L stainless steel
- 400 - Monel 400®
- CS - Carbon steel
- F11 - F11 carbon steel (forged)
- F22 - F22 carbon steel (forged)
- F91 - F91 carbon steel (forged)
- A20 - Alloy 20
- BRASS - Brass

**OPTIONS**

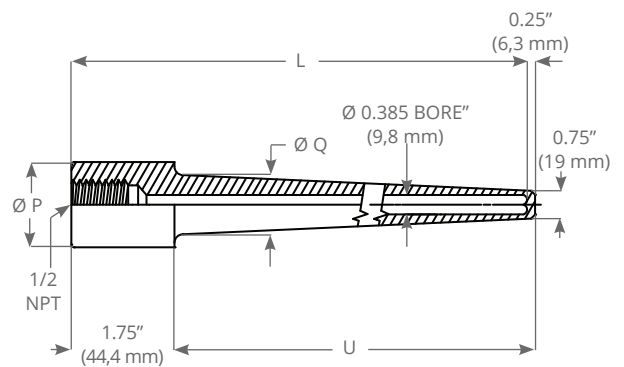
- TW01 - Stainless steel cap and chain assembly
- TW02 - Brass cap and chain assembly
- TAG2 - Stamped tag #
- STRT - Straight stem
- MTR1 - Material Test Report
- WFC1 - Wake Frequency Calculations

PROCESS CONNECTION =	ROOT DIAMETER (Q)		
	3/4" PIPE	1" PIPE	1.5" PIPE
SW260 & 385	.75"	.88"	1.13"
SWH260 & 385	.75"	1.00"	1.25"
SWH Tip Diameter	.63"	.75"	.75"

**Wake Frequency Calculations** are available on all thermowell designs. Contact UE-AST.



**STYLE SW260**



**STYLE SWH385**

## BAR STOCK, SOCKET-WELD CONNECTION WITH LAG

### How to build a part number:

Select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Consult UE-AST for custom solutions.

PROCESS CONNECTION	STYLE	BORE	WELL LENGTH	LAG EXTENSION	WELL MATERIAL	OPTIONS
--------------------	-------	------	-------------	---------------	---------------	---------

#### PROCESS CONNECTION (P)

- 2 - 3/4" pipe (OD = 1.05")
- 3 - 1" pipe (OD = 1.315")
- 5 - 1-1/2" pipe (OD = 1.90")

#### STYLE

- SWL** - Socket-weld connection, stepped stem, with lag (for straight stem, see Options)
- SWLH** - Socket-weld connection, tapered stem, with lag

#### BORE

- 260 - 0.260" bore
- 385 - 0.385" bore

#### WELL LENGTH (in inches)\*

- L#** - Specify length of thermowell (e.g., L9 = 9")
- Standard lengths:

	LENGTH (L) =	U =	
		IF T = 2"	IF T = 3"
L6	6"	2.5"	1.5"
L9	9"	5.5"	4.5"
L12	12"	8.5"	7.5"
L15	15"	11.5"	10.5"
L18	18"	14.5"	13.5"
L24	24"	20.5"	19.5"

Specify other (L = U+T+1.5")

(\* ) Thermowells with an overall length of 42" or less are machined from SOLID BAR STOCK. Thermowells with an overall length greater than 42" are constructed using a welded design and are available in straight, stepped or tapered design. However, for tapered only the last 16" are tapered.

#### LAG EXTENSION (in inches)

- T#** - Specify length of lagging (e.g., T2=2" lag)
- T2 - 2" T3 - 3" Specify other

#### WELL MATERIAL

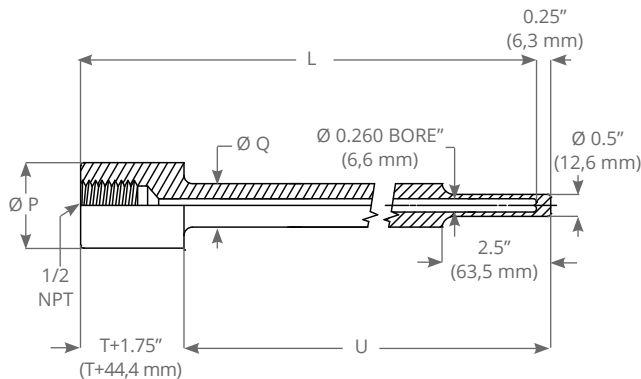
- - 304 stainless steel
- 310 - 310 stainless steel
- 316 - 316 stainless steel
- INC - Inconel 600®
- 321 - 321 stainless steel
- ALUM - Aluminum
- HAST - Hastelloy C®
- TTNM - Titanium
- 316L - 316L stainless steel
- 400 - Monel 400®
- CS - Carbon steel
- F11 - F11 carbon steel (forged)
- F22 - F22 carbon steel (forged)
- F91 - F91 carbon steel (forged)
- A20 - Alloy 20
- BRASS - Brass

#### OPTIONS

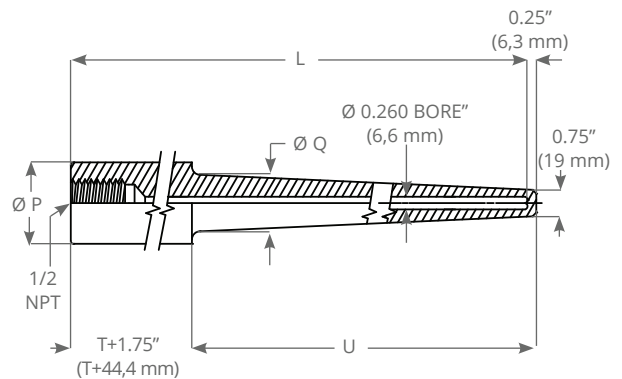
- TW01 - Stainless steel cap and chain assembly
- TW02 - Brass cap and chain assembly
- MTR1 - Material Test Report
- TAG2 - Stamped tag #
- WFC1 - Wake Frequency Calculations
- STRT - Straight stem

PROCESS CONNECTION =	ROOT DIAMETER (Q)		
	3/4" PIPE	1" PIPE	1.5" PIPE
SWL260 & 385	.75"	.88"	1.25"
SWLH260 & 385	.75"	1.00"	1.25"
SWLH Tip Diameter	.63"	.75"	.75"

**Wake Frequency Calculations** are available on all thermowell designs. Contact UE-AST.



2, 3, 5  
STYLE SWL260



2, 3, 5  
STYLE SWLH260

**BAR STOCK, WELD-IN CONNECTION, NO LAG**

**How to build a part number:**

Select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Consult UE-AST for custom solutions.

PROCESS CONNECTION	STYLE	BORE	WELL LENGTH	WELL MATERIAL	OPTIONS
--------------------	-------	------	-------------	---------------	---------

**PROCESS CONNECTION (P)**

- 2 - 3/4" pipe (OD = 1.05")
- 3 - 1" pipe (OD = 1.315")
- 5 - 1-1/2" pipe (OD = 1.90")

**STYLE**

**WIH** - Weld-in, tapered stem, no lag

**BORE**

- 260 - 0.260" bore
- 385 - 0.385" bore

**WELL LENGTH** (in inches)\*

**L#** - Specify length of thermowell (e.g., L4 = 4")

Standard lengths:

- L4** - L=4"; U=2.5"                      **L6** - L=6"; U=4.5"
- L9** - L=9"; U=7.5"                      **L12** - L=12"; U=10.5"
- L15** - L=15"; U=13.5"                **L18** - L=18"; U=16.5"
- L24** - L=24"; U=22.5"

Specify other (L = U+1.5")

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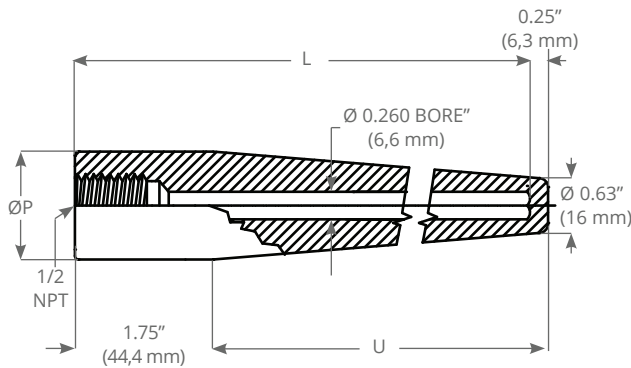
**WELL MATERIAL**

- 304 stainless steel
- 310** - 310 stainless steel
- 316** - 316 stainless steel
- INC** - Inconel 600®
- 321** - 321 stainless steel
- ALUM** - Aluminum
- HAST** - Hastelloy C®
- TTNM** - Titanium
- 316L** - 316L stainless steel
- 400** - Monel 400®
- CS** - Carbon steel
- F11** - F11 carbon steel (forged)
- F22** - F22 carbon steel (forged)
- F91** - F91 carbon steel (forged)
- A20** - Alloy 20
- BRASS** - Brass

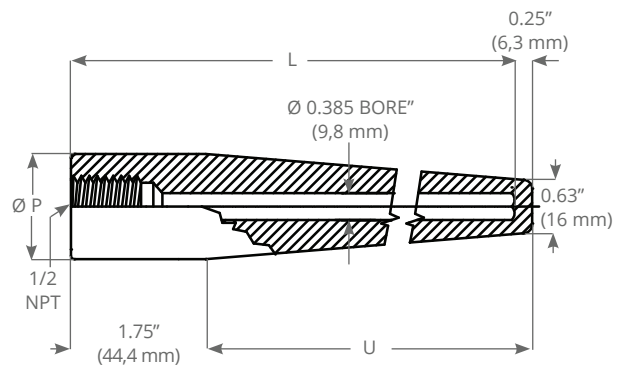
**OPTIONS**

- TW01** - Stainless steel cap and chain assembly
- TW02** - Brass cap and chain assembly
- TAG2** - Stamped tag #
- MTR1** - Material Test Report
- WFC1** - Wake Frequency Calculations

**Wake Frequency Calculations** are available on all thermowell designs. Contact UE-AST.



**STYLE WIH260**



**STYLE WIH385**

**BAR STOCK, WELD-IN CONNECTION WITH LAG**

**How to build a part number:**

Select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Consult UE-AST for custom solutions.

PROCESS CONNECTION	STYLE	BORE	WELL LENGTH	LAG EXTENSION	WELL MATERIAL	OPTIONS
--------------------	-------	------	-------------	---------------	---------------	---------

**PROCESS CONNECTION (P)**

- 2 - 3/4" pipe (OD = 1.05")
- 3 - 1" pipe (OD = 1.315")
- 5 - 1-1/2" pipe (OD = 1.90")

**STYLE**

**WIHL** - Weld-in, tapered stem with lag extension

**BORE**

- 260 - 0.260" bore
- 385 - 0.385" bore

**WELL LENGTH (in inches)\***

**L#** - Specify length of thermowell (e.g., L9 = 9")  
Standard lengths:

	LENGTH (L) =	U =	
		IF T = 2"	IF T = 3"
L6	6"	2.5"	1.5"
L9	9"	5.5"	4.5"
L12	12"	8.5"	7.5"
L15	15"	11.5"	10.5"
L18	18"	14.5"	13.5"
L24	24"	20.5"	19.5"

Specify other (L = U+T+1.5")

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**LAG EXTENSION (in inches)**

**T#** - Specify length of lagging (e.g., T2=2" lag)  
**T2 - 2" T3 - 3" Specify other**

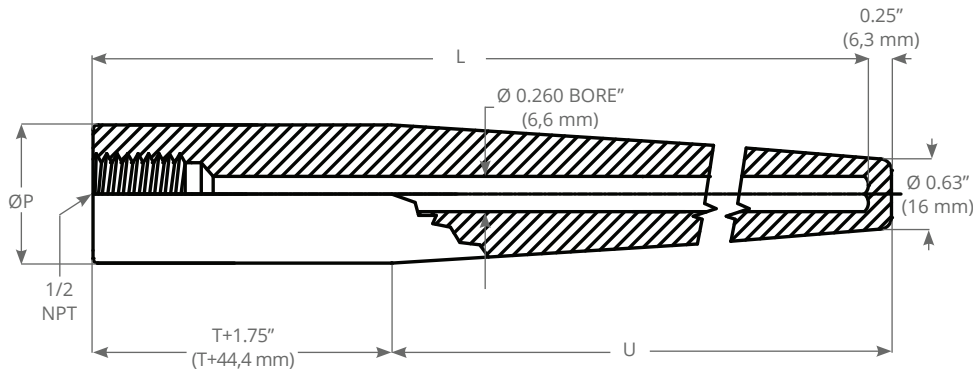
**WELL MATERIAL**

- 304 stainless steel
- 310** - 310 stainless steel
- 316** - 316 stainless steel
- INC** - Inconel 600®
- 321** - 321 stainless steel
- ALUM** - Aluminum
- HAST** - Hastelloy C®
- TTNM** - Titanium
- 316L** - 316L stainless steel
- 400** - Monel 400®
- CS** - Carbon steel
- F11** - F11 carbon steel (forged)
- F22** - F22 carbon steel (forged)
- F91** - F91 carbon steel (forged)
- A20** - Alloy 20
- BRASS** - Brass

**OPTIONS**

- TW01** - Stainless steel cap and chain assembly
- TW02** - Brass cap and chain assembly
- TAG2** - Stamped tag #
- MTR1** - Material Test Report
- WFC1** - Wake Frequency Calculations

**Wake Frequency Calculations** are available on all thermowell designs. Contact UE-AST.



**STYLE WIHL260**

**BAR STOCK, VAN STONE FLANGE CONNECTION**

**How to build a part number:**

Select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Consult UE-AST for custom solutions.

PROCESS CONNECTION	STYLE	BORE	INSERTION LENGTH	WELL MATERIAL	FLANGE MATERIAL	FLANGE RATING	OPTIONS

**PROCESS CONNECTION (P)**

- 3 - 1" pipe (OD = 1.315", R = 2")
- 5 - 1-1/2" pipe (OD = 1.90", R = 2-7/8")

**STYLE**

VS - Van Stone Flange, straight stem with step

**BORE**

- 260 - 0.260" bore (Q = 3/4")
- 385 - 0.385" bore (Q = 7/8")

**INSERTION LENGTH** (in inches)\*

U# - Specify length below the flange (e.g., U4 = 4")  
Standard lengths:

- |                    |                    |
|--------------------|--------------------|
| U2 - U=2"; L=4"    | U4 - U=4"; L=6"    |
| U7 - U=7"; L=9"    | U10 - U=10"; L=12" |
| U13 - U=13"; L=15" | U16 - U=16"; L=18" |
| U22 - U=22"; L=24" |                    |
- Specify other (U = L-2")

(\* ) Thermowells with an overall length of 42" or less are machined from SOLID BAR STOCK. Thermowells with an overall length greater than 42" are constructed using a welded design and are available in straight, stepped or tapered design. However, for tapered only the last 16" are tapered.

**WELL MATERIAL**

- 304 stainless steel
- 310 - 310 stainless steel
- 316 - 316 stainless steel
- INC - Inconel 600®
- 321 - 321 stainless steel
- ALUM - Aluminum
- HAST - Hastelloy C®
- TTNM - Titanium
- 316L - 316L stainless steel
- 400 - Monel 400®
- CS - Carbon steel
- F11 - F11 carbon steel (forged)
- F22 - F22 carbon steel (forged)
- F91 - F91 carbon steel (forged)
- A20 - Alloy 20
- BRASS - Brass

**FLANGE MATERIAL**

- 304 - 304 stainless steel
- 316 - 316 stainless steel

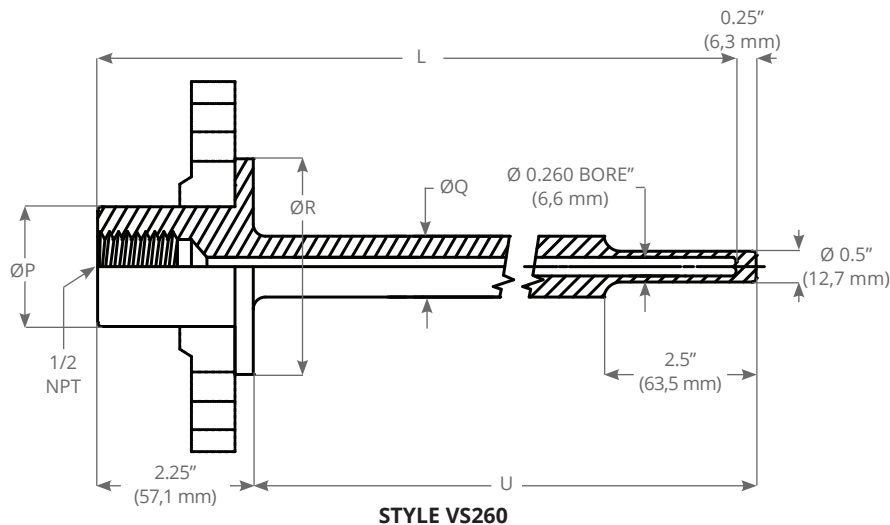
**FLANGE RATING**

- 150 - 150# rating
- 300 - 300# rating
- 600 - 600# rating
- 900/1500 - 900/1500# rating

**OPTIONS**

- TW01 - Stainless steel cap and chain assembly
- TW02 - Brass cap and chain assembly
- TAG2 - Stamped tag #
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- WFC1 - Wake Frequency Calculations
- TFLN - Teflon coating

**Wake Frequency Calculations** are available on all thermowell designs. Contact UE-AST.



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