

BAR STOCK, NPT CONNECTION, NO LAG

How to build a part number:

To order an Applied Sensor Technologies thermowell, select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Don't see exactly what you need? Give us a call!

PROCESS CONNECTION	STYLE	BORE	WELL LENGTH	WELL MATERIAL	OPTIONS

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")

WELL MATERIAL

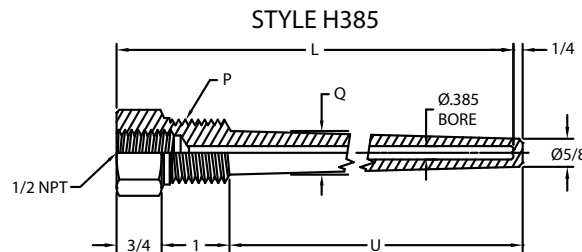
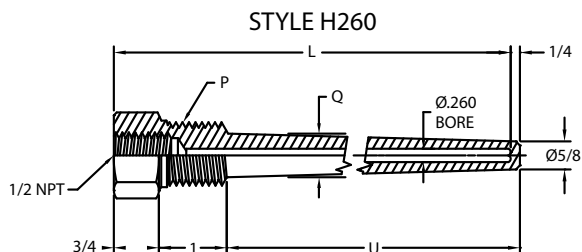
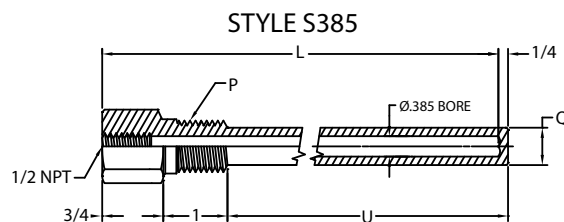
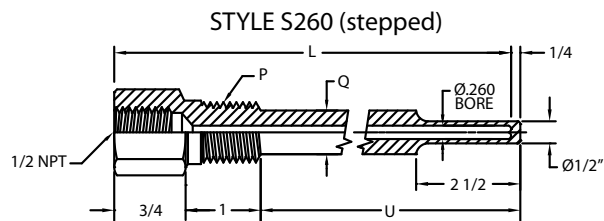
- – 304 stainless steel
- 310 – 310 stainless steel
- 316 – 316 stainless steel
- INC – Inconel 600®
- 321 – 321 stainless steel
- ALUM – Aluminum
- HAST – Hastelloy C®
- TTNM – Titanium
- 316L – 316L stainless steel
- 400 – Monel 400®
- CS – Carbon steel
- F11 – F11 carbon steel (forged)
- F22 – F22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

Root Diameter (Q)

Process Connection =	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 AST.

(*) 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.

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BAR STOCK, NPT CONNECTION WITH LAG

How to build a part number:

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PROCESS CONNECTION	STYLE	BORE	WELL LENGTH	LAG EXTENSION	WELL MATERIAL	OPTIONS

PROCESS CONNECTION (P)

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

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

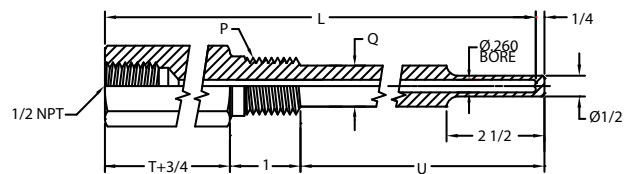
OPTIONS

- TW01** – Stainless steel cap and chain assembly
TW02 – Brass cap and chain assembly **TAG2** – Stamped tag #
STR1 – Straight stem
MTR1 – Material Test Report

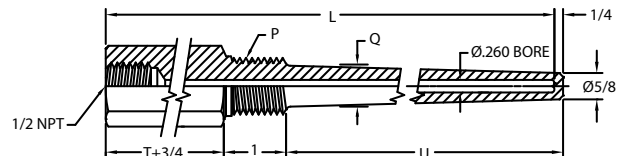
Root Diameter (Q)

Process Connection =	1/2" NPT	3/4" NPT	1" NPT	1-1/2" NPT
SL260 and SL385	.63"	.75"	.88"	.88"
HL260 and HL385	.68"	.88"	1.06"	1.63"

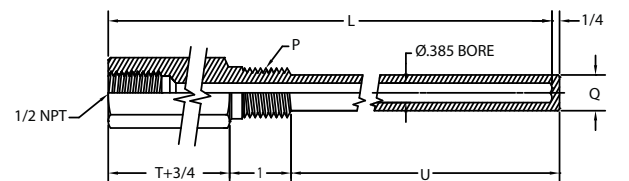
STYLE SL260



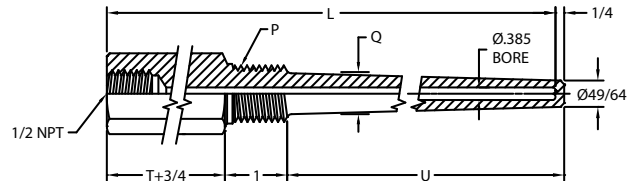
STYLE HL260



STYLE SL385



STYLE HL385



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BAR STOCK, NPT CONNECTION, LIMITED SPACE

How to build a part number:

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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

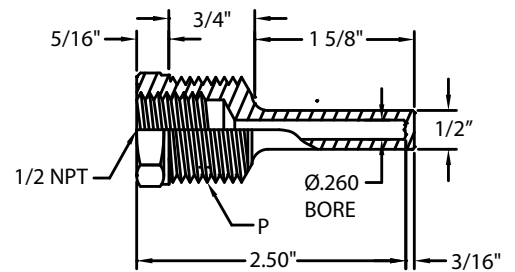
WELL MATERIAL

- – 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

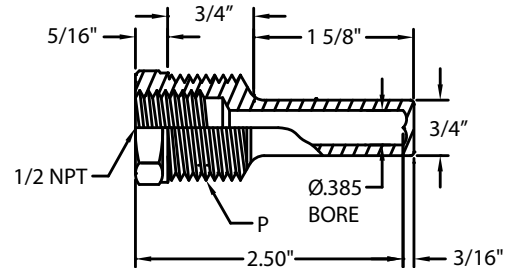
OPTIONS

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

STYLE LS260



STYLE LS385



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BAR STOCK, FLANGE CONNECTION

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

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"

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 (L = U + 2")

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

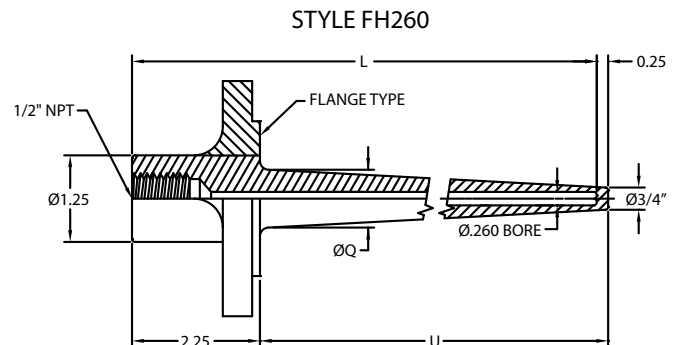
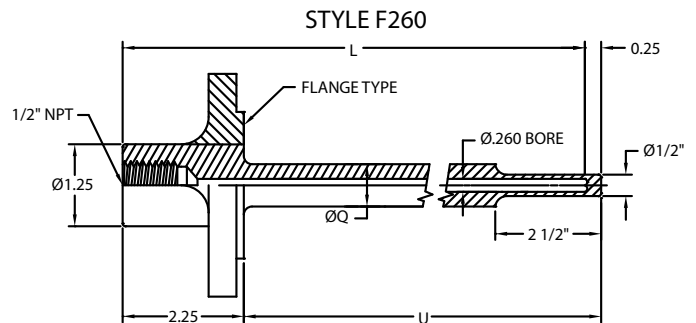
TW02 – Brass cap and chain assembly

TAG2 – Stamped tag #

STRT – Straight stem

MTR1 – Material Test Report

TFLN – Teflon sleeve or coating



	Root Diameter (Q)
F260	0.75"
F385	0.75"
FH260 & 385	1" flange = .88" 1.5" flange = 1.06" All others = 1.25"

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BAR STOCK, SOCKET-WELD CONNECTION, NO LAG

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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

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" | 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")

WELL MATERIAL

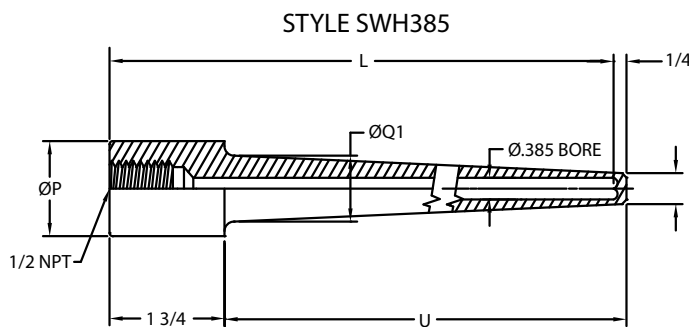
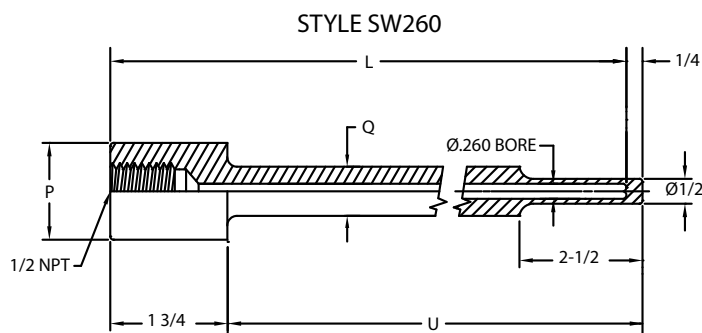
- | | |
|----------------------------------|--|
| --- – 304 stainless steel | 316L – 316L stainless steel |
| 310 – 310 stainless steel | 400 – Monel 400® |
| 316 – 316 stainless steel | CS – Carbon steel |
| INC – Inconel 600® | F11 – F11 carbon steel (forged) |
| 321 – 321 stainless steel | F22 – F22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

Root Diameter (Q)

Process Connection =	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"



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BAR STOCK, SOCKET-WELD CONNECTION WITH LAG

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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, no lag (for straight stem, see Options)

SWLH – 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., 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")

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

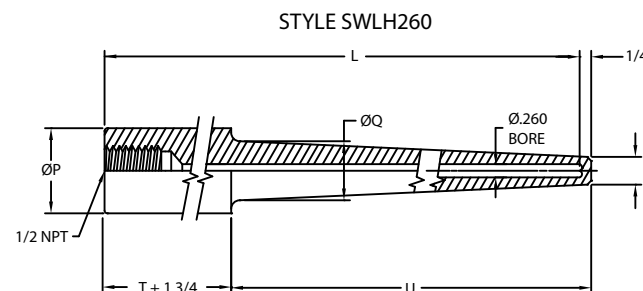
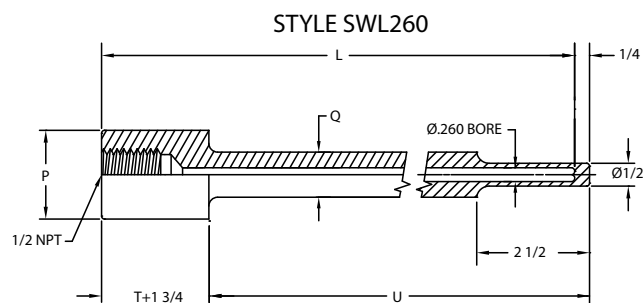
MTR1 – Material Test Report

TAG2 – Stamped tag #

STRT – Straight stem

Root Diameter (Q)

Process Connection =	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"



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BAR STOCK, WELD-IN CONNECTION, NO LAG

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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" | |

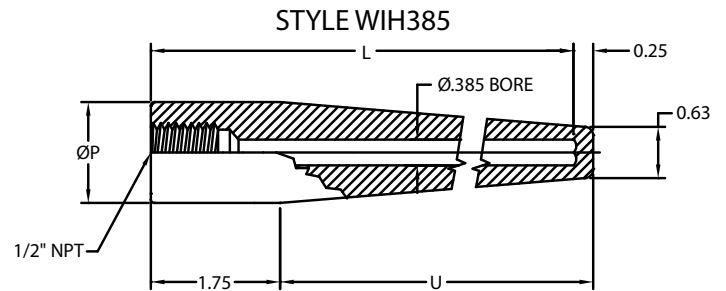
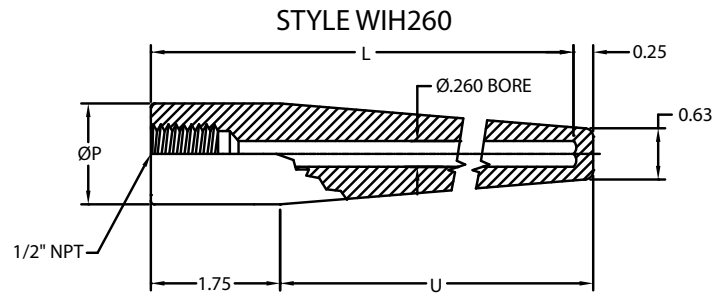
Specify other (L = U+1.5")

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® | F11 – F11 carbon steel (forged) |
| 321 – 321 stainless steel | F22 – F22 carbon steel (forged) |
| ALUM – Aluminum | F91 – F91 carbon steel (forged) |
| HAST – Hastelloy C® | A20 – Alloy 20 |
| TTNM – Titanium | BRASS – Brass |

OPTIONS

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



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BAR STOCK, WELD-IN CONNECTION WITH LAG

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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")

LAG EXTENSION (in inches)

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

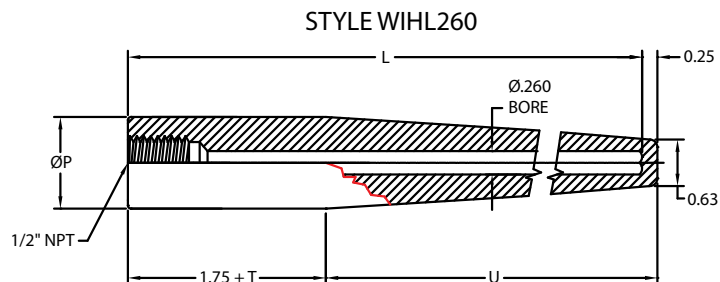
T2 – 2" **T3** – 3" **Specify other**

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® | F11 – F11 carbon steel (forged) |
| 321 – 321 stainless steel | F22 – F22 carbon steel (forged) |
| ALUM – Aluminum | F91 – F91 carbon steel (forged) |
| HAST – Hastelloy C® | A20 – Alloy 20 |
| TTNM – Titanium | BRASS – Brass |

OPTIONS

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



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BAR STOCK, VAN STONE FLANGE CONNECTION

How to build a part number:

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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=14"

U16 – U=16"; L=18"

U22 – U=22"; L=24"

Specify other (U = L-2")

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

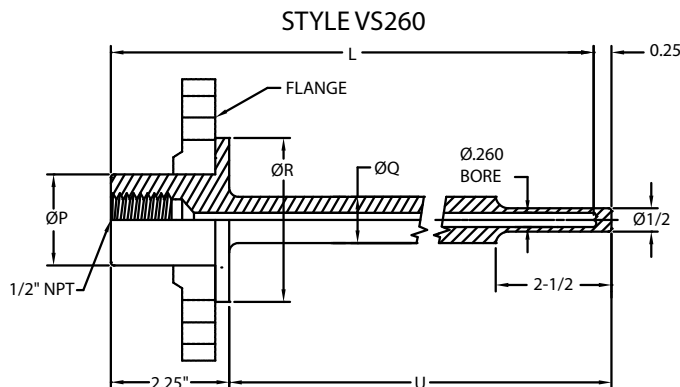
TW01 – Stainless steel cap and chain assembly

TW02 – Brass cap and chain assembly

TAG2 – Stamped tag #

MTR1 – Material Test Report

TFLN – Teflon coating



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

(*) 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.

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