Thermowells

Example Model Number	Style	Bore Diameter	Immersion Length "U" Dim.	Root Diameter "Q" Dim.	Tip Diameter "D" Dim.	Instrument Connection	Material	Lag Length "T" Dim.	Options
	TR2	**A**	**045**	**H**	**C**	**2**	**B**		**-AT**

Written as: TR2A045HC2B-AT

(continued on next page)

Style

Mounting Style	Code
Threaded	*T*
Flanged-RF	*F*
Flanged-RTJ	*J*
Flanged-FF	*N*
Socket Weld	*S*
Weld-In	*W*
Van Stone	*V*
Sanitary	*C*

Shank Style	Code
Stepped	*R*
Straight	*S*
Tapered	*H*

Process Connection	Code
Threaded	
1/2" NPT	*1*
3/4" NPT	*2*
1" NPT	*3*
1-1/4" NPT	*4*
1-1/2" NPT	*5*
Flanged	
1" Class 150	*3A*
1-1/2" Class 150	*5A*
2" Class 150	*6A*
1" Class 300	*3B*
1-1/2" Class 300	*5B*
2" Class 300	*6B*
1" Class 600	*3C*
1-1/2" Class 600	*5C*
2" Class 600	*6C*
1" Class 900/1500	*3D*
1-1/2" Class 900/1500	*5D*
2" Class 900/1500	*6D*
1" Class 2500	*3E*
1-1/2" Class 2500	*5E*
2" Class 2500	*6E*
Socket Weld and Weld-In	
3/4" Pipe (1.050 OD)	*2*
1" Pipe (1.315 OD)	*3*
1-1/4" Pipe (1.660 OD)	*4*
1-1/2" Pipe (1.900 OD)	*9*
1-1/2" Actual (1.500 OD)	*5*
Van Stone	
1"	*3*
1-1/2"	*5*
2"	*6*
Sanitary	
1-1/2" Tri-Clamp	*5*
2" Tri-Clamp	*6*
2-1/2" Tri-Clamp	*7*
3" Tri-Clamp	*8*
Other	
(Please Specify)	*X*

Bore Diameter

(inches)	Code
0.260	*A*
0.385	*B*
0.187	*C*
0.190	*D*
0.203	*E*
0.250	*F*
0.281	*G*
0.290	*H*
0.343	*J*
0.375	*K*
0.406	*L*
0.437	*M*
0.515	*N*
0.640	*P*
0.656	*R*
0.702	*S*
0.718	*T*
Other (Please specify)	*X*

Immersion Length

(inches)	Code
1.625	*016*
2.0	*020*
2.5	*025*
etc...	
10.0	*100*
10.5	*105*
11.0	*110*
11.5	*115*
etc...	
98.0	*980*
98.5	*985*
99.0	*990*
99.5	*995*
Other	*XXX*

Thermowell drawings on pages 10 thru 14.

(continued from previous page)

Root Diameter	
(inches)	**Code**
0.375	*A*
0.400	*B*
0.500	*C*
0.562	*D*
0.625	*E*
0.680	*F*
0.735	*G*
0.750	*H*
0.766	*J*
0.781	*K*
0.860	*L*
0.875	*M*
0.900	*N*
1.000	*P*
1.050	*Q*
1.063	*R*
1.125	*S*
1.250	*T*
1.315	*U*
1.375	*V*
1.500	*W*
1.625	*Y*
1.900	*Z*
Other (Please specify)	*X*

For straight shank wells, leave blank

Tip Diameter	
(inches)	**Code**
0.375	*A*
0.400	*B*
0.500	*C*
0.562	*D*
0.625	*E*
0.680	*F*
0.735	*G*
0.750	*H*
0.766	*J*
0.781	*K*
0.860	*L*
0.875	*M*
0.900	*N*
1.000	*P*
1.050	*Q*
1.063	*R*
1.125	*S*
1.250	*T*
1.315	*U*
1.375	*V*
1.500	*W*
1.625	*Y*
1.900	*Z*
Other (Please specify)	*X*

Instrument Connection	
Type	**Code**
1/2" NPT	*1*
1/2" NPSM	*2*
1/4" NPT	*3*
1/4" NPSM	*4*
3/4" NPT	*5*
3/4" NPSM	*6*
1" NPT	*7*
1" NPSM	*8*
Other (Please specify)	*X*

Material	
Type	**Code**
304 SST	*A*
316 SST	*B*
Brass	*C*
310 SST	*D*
321 SST	*E*
347 SST	*F*
446 SST	*G*
Duplex 2205	*H*
CS-1018	*J*
CS-A105	*K*
Hastelloy B	*L*
Hastelloy C276	*M*
Alloy 20	*N*
Nickel 200	*P*
Monel 400	*Q*
Inconel 600	*R*
Incoloy 800	*S*
F5	*T*
F9	*U*
F11	*V*
F22	*W*
F91	*Y*
Titanium	*Z*
Other (Please Specify)	*X*

Lag Length	
(inches)	**Code**
0.0	
0.5	*05*
1.0	*10*
1.5	*15*
2.0	*20*
2.5	*25*
3.0	*30*
3.5	*35*
4.0	*40*
4.5	*45*
5.0	*50*
5.5	*55*
6.0	*60*
6.5	*65*
7.0	*70*
7.5	*75*
8.0	*80*
8.5	*85*
9.0	*90*
9.5	*95*
Other	*XX*

Options

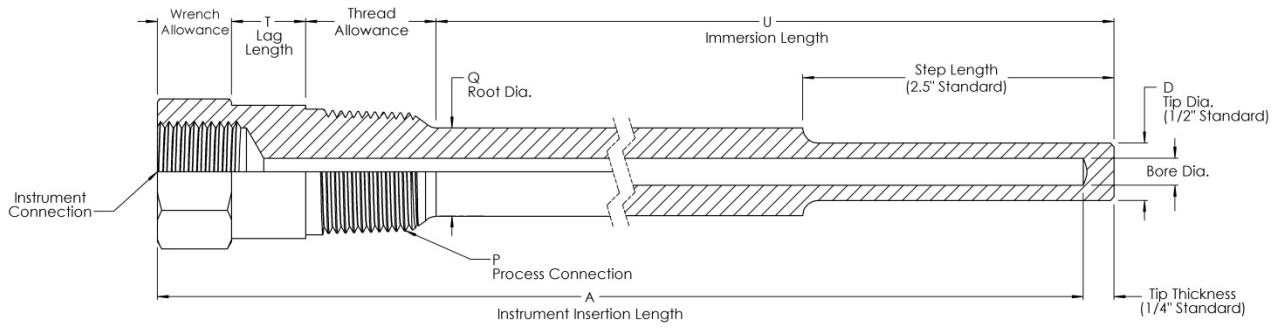
Option	Code		Option	Code
Stainless Plug and Chain	*A*		Electropolishing	*G*
Brass Plug and Chain	*B*		Teflon Coating	*N*
Special Markings / Tagging	*T*		Stellite Coating	*K*
Wake Frequency Calculation	*C*		Tantalum Sheath	*S*
Full Penetration Flange Weldment	*F*		Velocity Collar	*V*
Dye Penetrant Testing	*D*		Include Lap-Joint Flange (Van Stone)	*L*
Internal Hydro-testing	*I*		Special Cleaning for Oxygen Service	*Y*
External Hydro-testing	*E*		Tantalum Coating	*J*
Positive Material ID (PMI) Testing	*P*		Titanium Sheath	*Z*
X-ray of Weldment	*R*		Other (Please Specify)	*X*

Documents available on request:

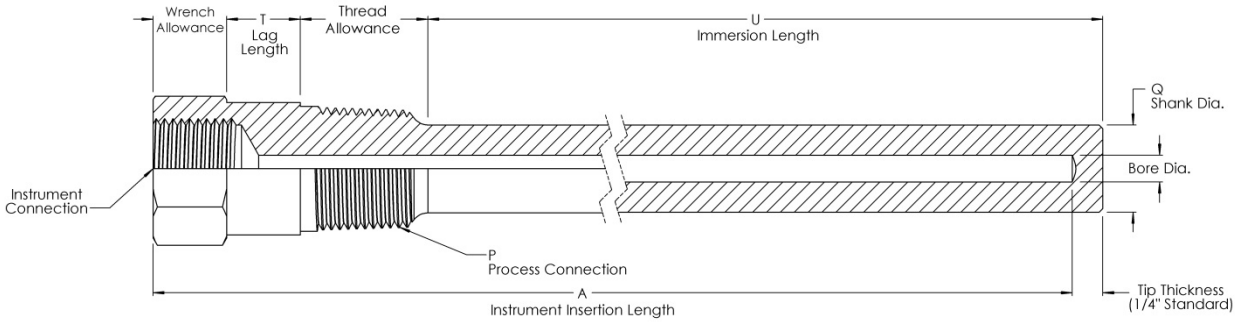
- MTR (Material Test Report)
- COC (Certificate of Compliance)
- COC-NACE (Certificate of NACE Compliance)
- COO (Certificate of Origin)

Threaded

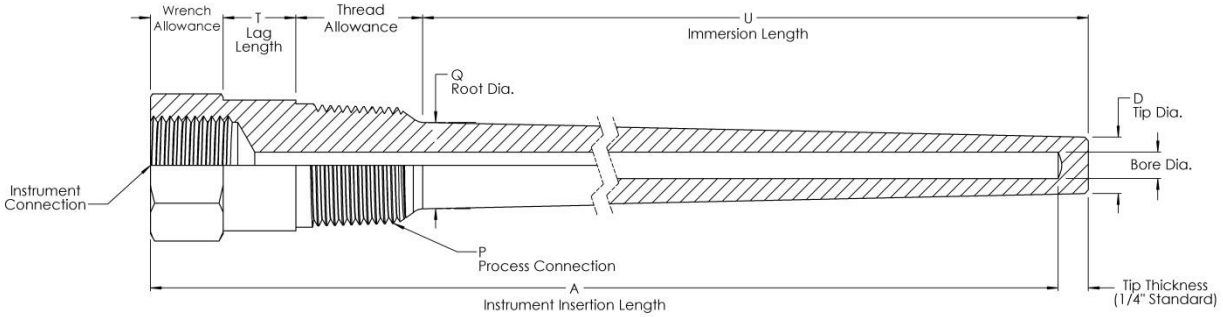
Stepped



Straight

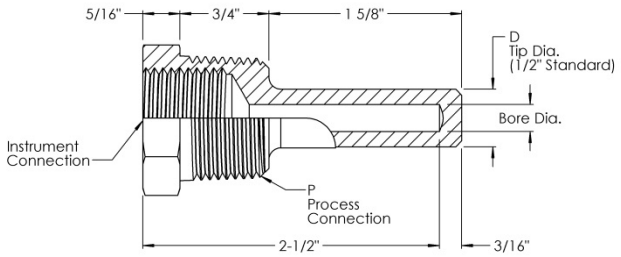


Tapered



* Standard head length (Wrench Allowance + Thread Allowance) = 1.75”

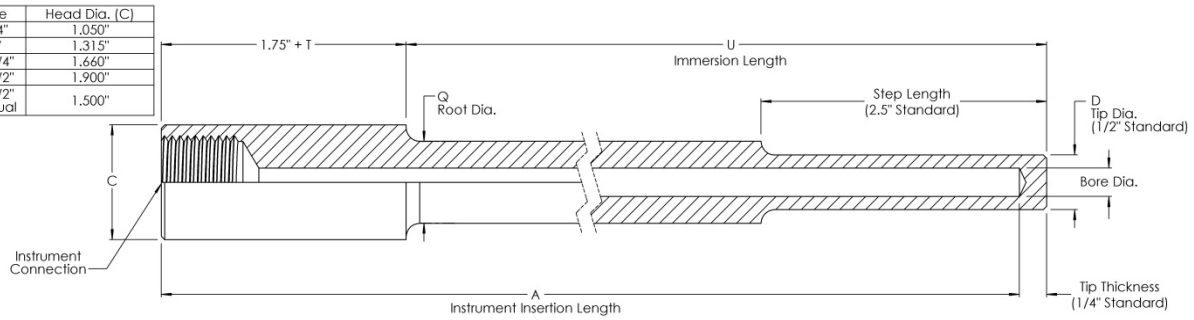
Limited Space



Socket Weld

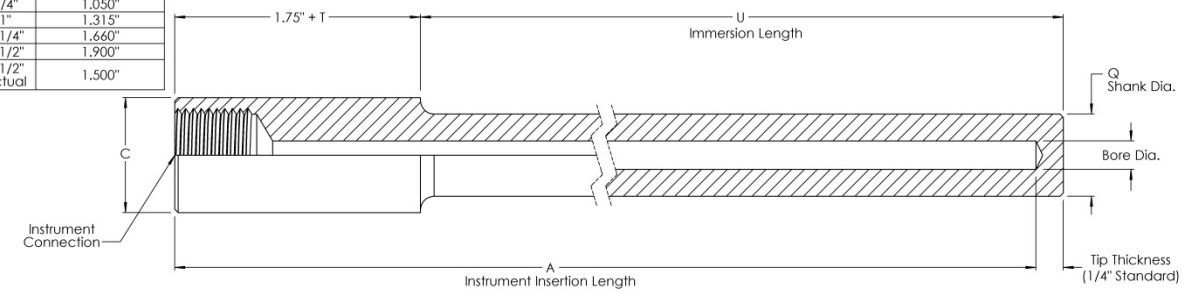
Stepped

Size	Head Dia. (C)
3/4"	1.050"
1"	1.315"
1-1/4"	1.660"
1-1/2"	1.900"
1-1/2" Actual	1.500"



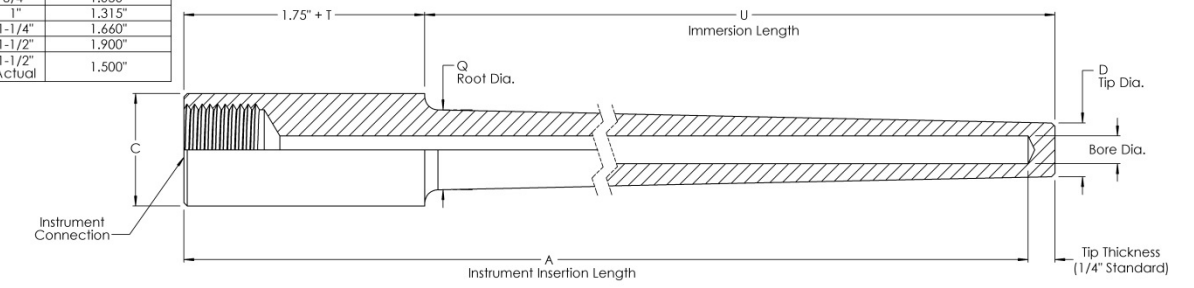
Straight

Size	Head Dia. (C)
3/4"	1.050"
1"	1.315"
1-1/4"	1.660"
1-1/2"	1.900"
1-1/2" Actual	1.500"



Tapered

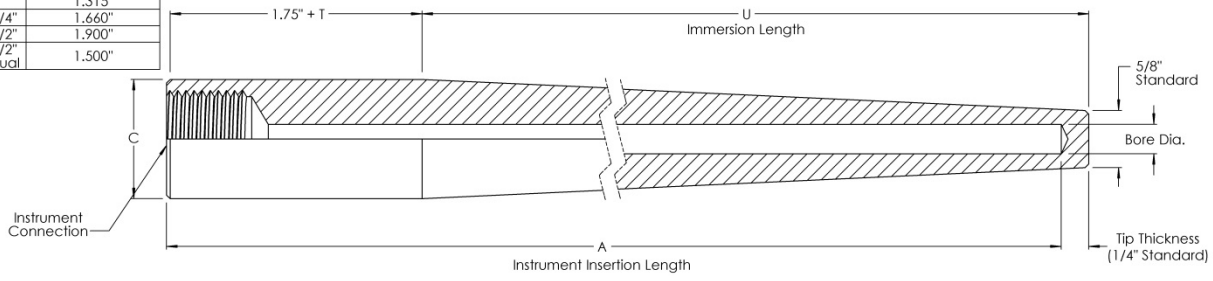
Size	Head Dia. (C)
3/4"	1.050"
1"	1.315"
1-1/4"	1.660"
1-1/2"	1.900"
1-1/2" Actual	1.500"



Weld-In

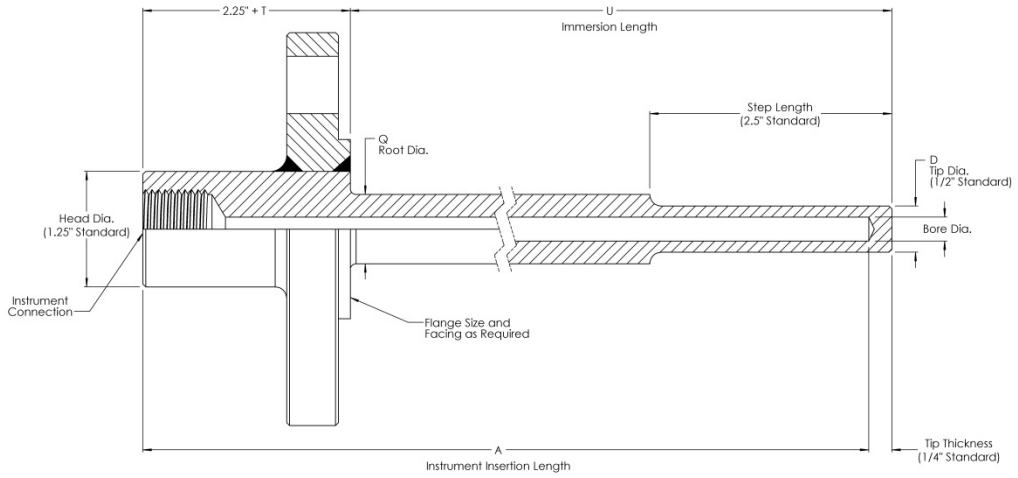
Tapered

Size	Head Dia. (C)
3/4"	1.050"
1"	1.315"
1-1/4"	1.660"
1-1/2"	1.900"
1-1/2" Actual	1.500"

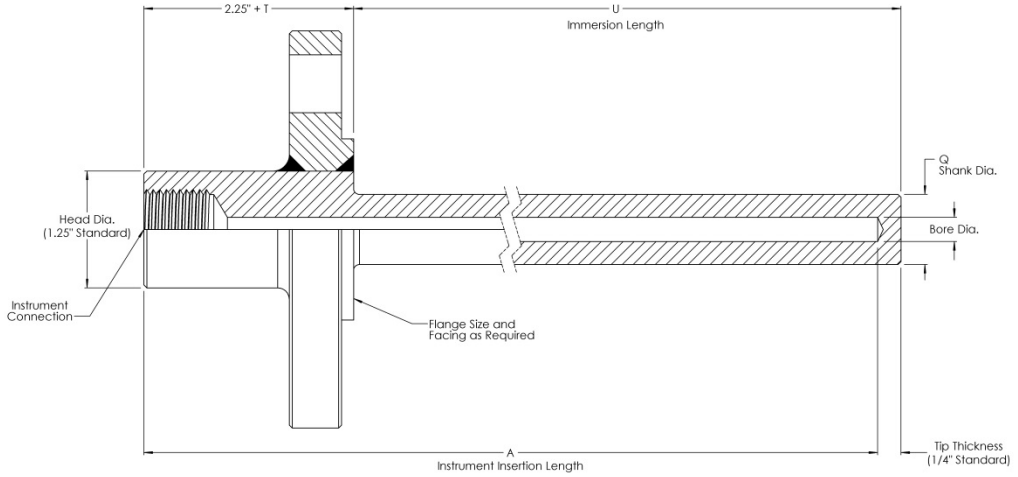


Flanged

Stepped



Straight



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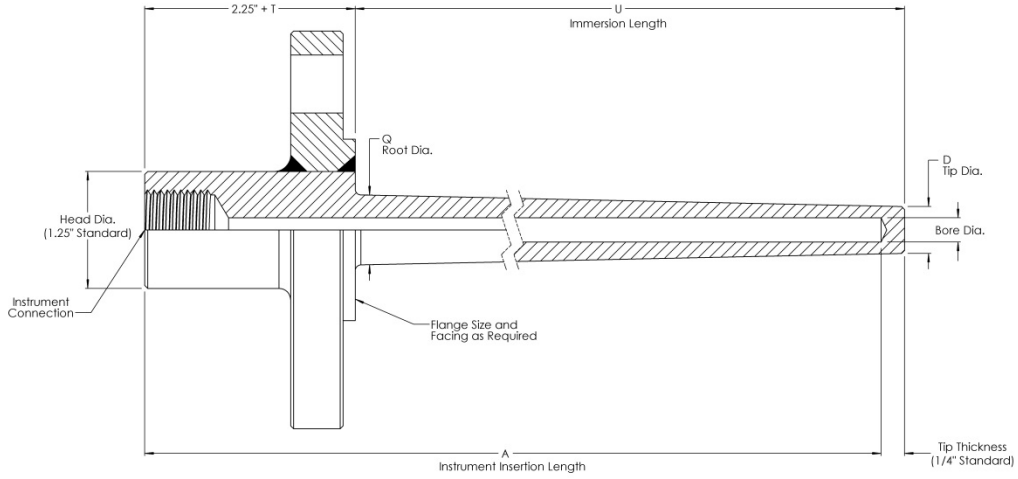
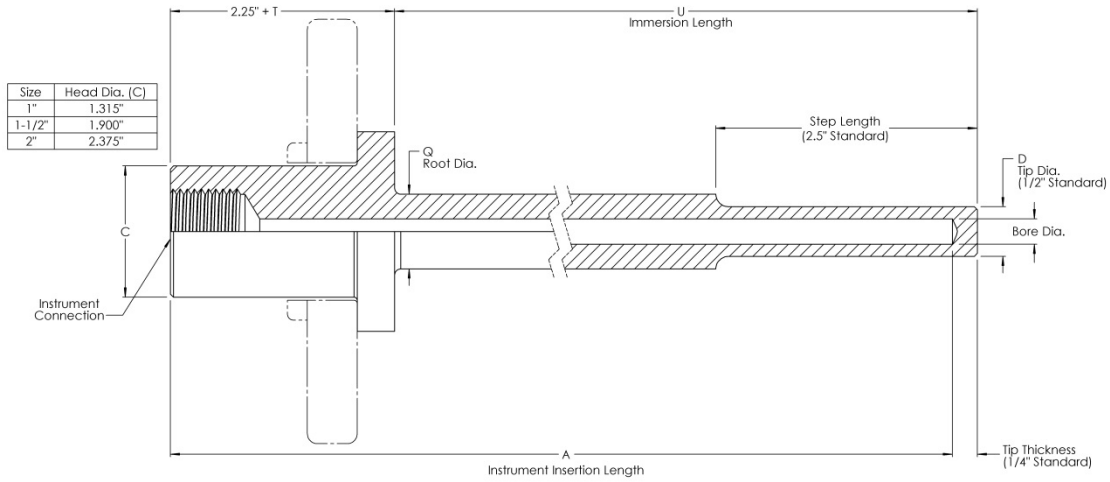
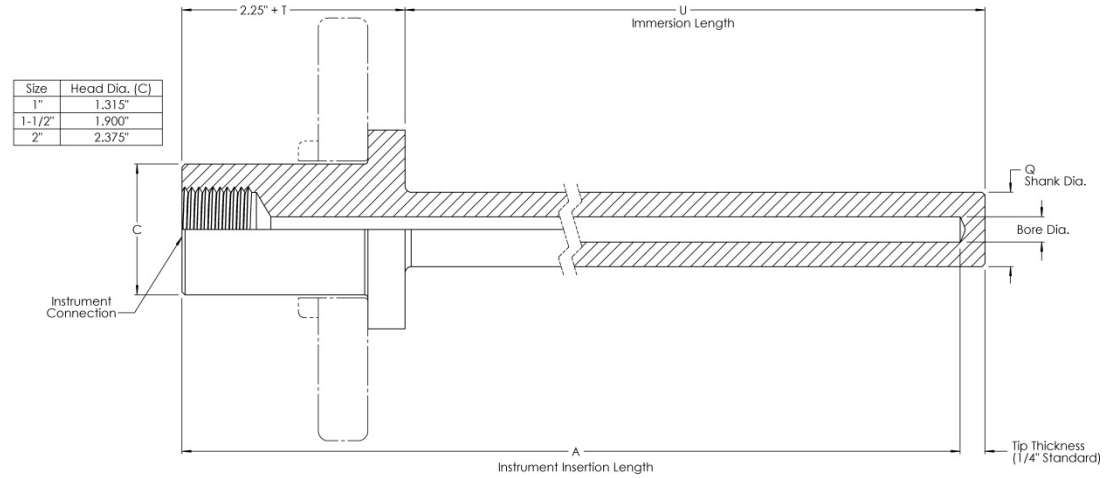


Van Stone

Stepped



Straight



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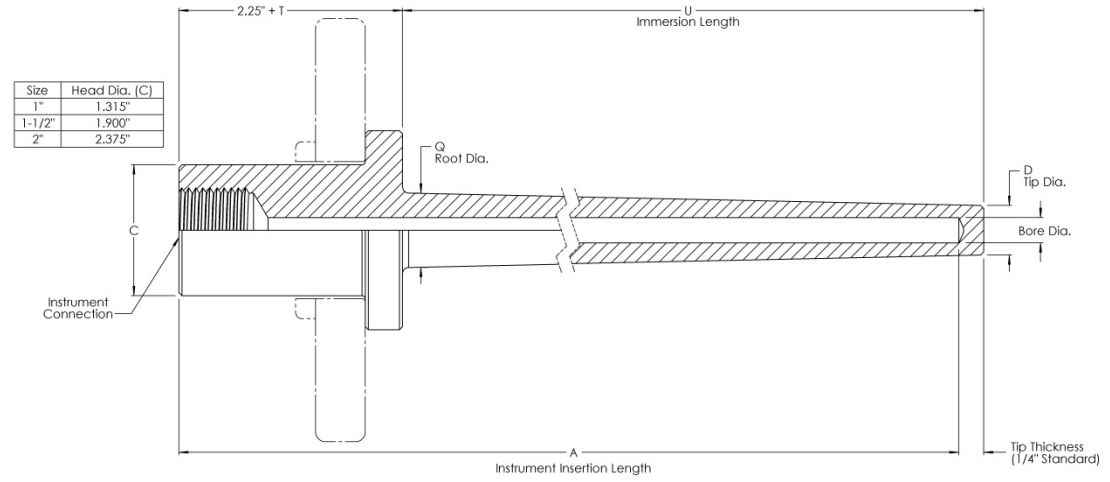
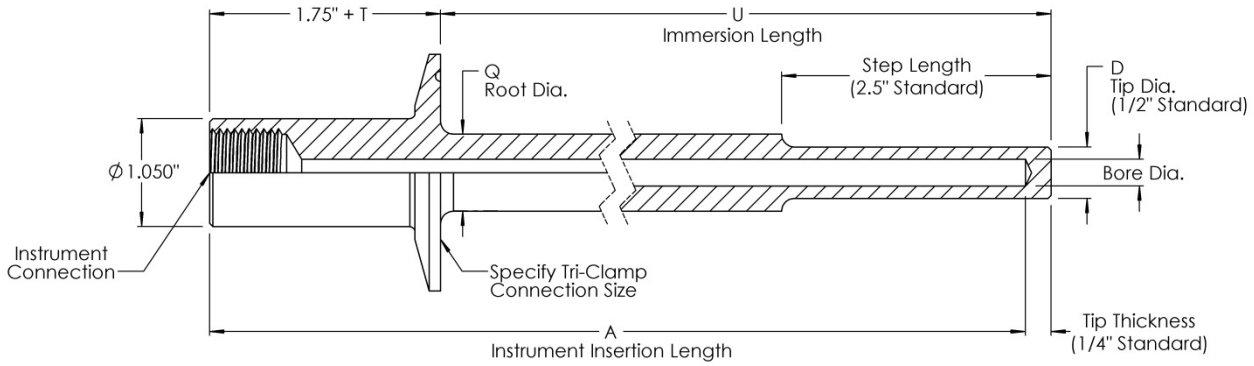
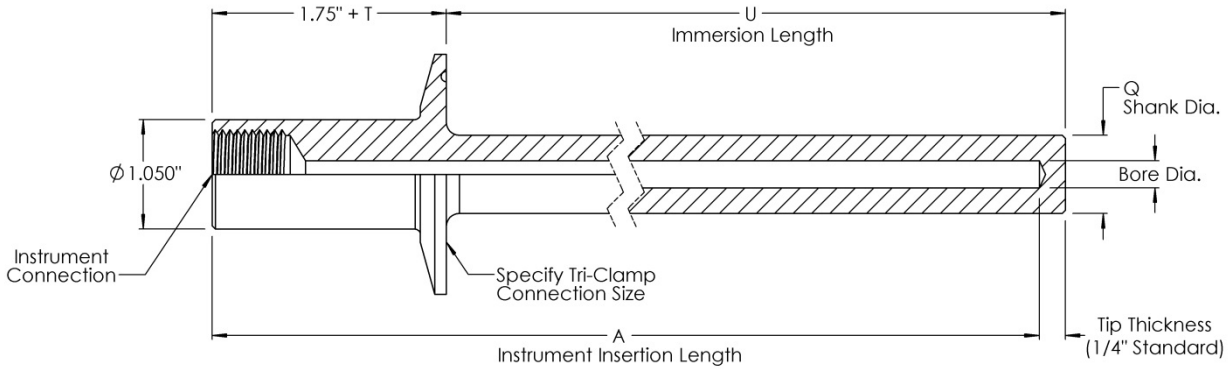


Sanitary

Stepped



Straight



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