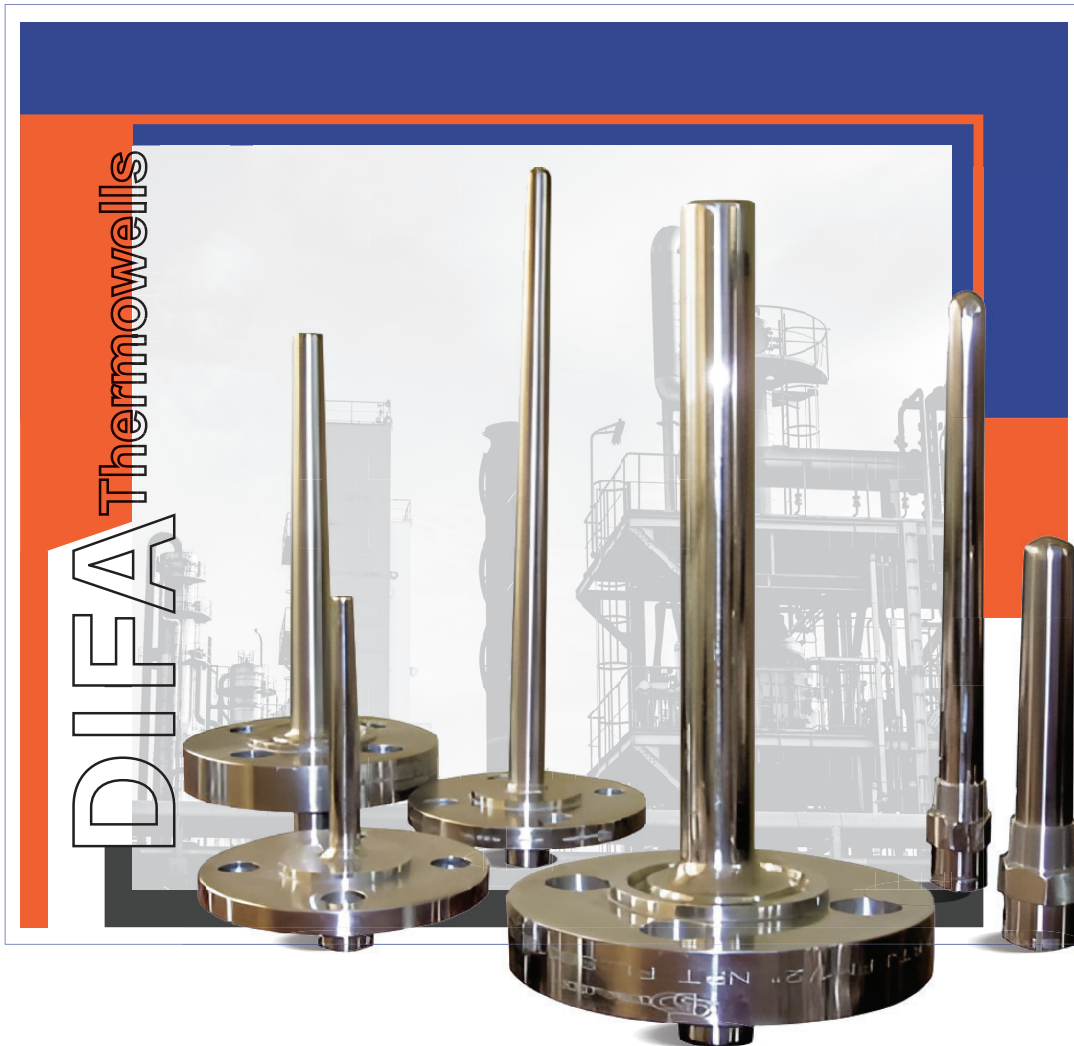


All Kind of Thermowells



DIFA Thermowells

"High-performance thermowells engineered for durability, accuracy, and reliable operation in demanding process conditions."

GENERAL

We design and manufacture a comprehensive range of thermowells in full compliance with ASME B16.5 and ASME PTC 19.3 standards, serving the oil, gas, refinery, and petrochemical industries. Available in various lengths, diameters, and sheath materials, our thermowells are engineered for durability, precision, and safe sensor replacement without interrupting the process.

FEATURES

- Wide selection of materials including Hastelloy C, Monel, SS316L, SS304L, Alloy 600, and other special alloys
- Welded or solid-bar construction with parallel or tapered sheath designs
- Process connections in BSP, NPT, or other threads upon request
- Custom-built solutions with fast delivery and approval in vendor lists of leading oil, gas, and petrochemical companies

TESTING & CERTIFICATION

- ASME PTC 19.3 TW-2010 wake frequency calculation
- Pressure testing, MTCs, X-Ray, dye penetration, and full-penetration weld inspection
- NACE MR0175 hardness compliance

APPLICATION

Ideal for use in petrochemical plants, oil & gas facilities, power generation, process engineering, and equipment construction. Extensively applied in machinery, tanks, pipelines, and heating systems across low, medium, and high process loads.

STANDARD SPECIFICATION

Material:	Stainless steel 304L, 316L(NACE), Inconel, hastelloy, PTFE coating
Insertion Length(U):	To customer specification (max.:3000mm)
Bore size:	6mm, 7mm, 8mm, 10mm, ...
Connection to the thermometer:	1/2NPT, 1NPT, 3/4NPT, G1/2, G3/4
Process connection:	Flange (RF, RTJ), Weld, Thread
Class:	150, 300, 600, 900, 1500, 2500, 5000, 10000

Thermowell

Flanged Type

DTW1

Thermowell

#1	CONFIGURATION		
A	Step Shank(Standard)	B	Built-up Thermowell
S	Straight Shank	X	Other Specify
T	Tapered Shank		
#2	BORE SIZE		
2	6mm		
3	8mm		
X	Other Specify		
#3	STEM		
U	Insertion Lenght (mm)		
T	Round Head (mm)		
#4	FLANGE AND WELL MATERIAL		
	FLANGE		WELL
C	Carbon Steel	C	Carbon Steel
4	SS 304, (304 L)	4	SS 304, (304 L)
6	SS 316, (316 L)	6	SS 316, (316 L)
M	Inconel 600	M	Inconel 600
H	Hastelloy C-276	H	Hastelloy C-276
X	Other Specify	X	Other Specify
#5	SIZE OF FLANGE		
3	1"	5	2"
4	1 1/2"	X	Other Specify
#6	FLANGE RATING		
A"	150		
B"	300	E	1500
C"	600	F	2500
D"	900	X	Other Specify
#7	FLANGE TYPE		
1	Rasised Face(RF)		
2	Flat Face (FF)		
3	Ring Joint Type(RJT)		
X	Other Specify		
#8	OPTION		
S	Coating XXX mm - (Material)		

DTW1

1

2

3

4

5

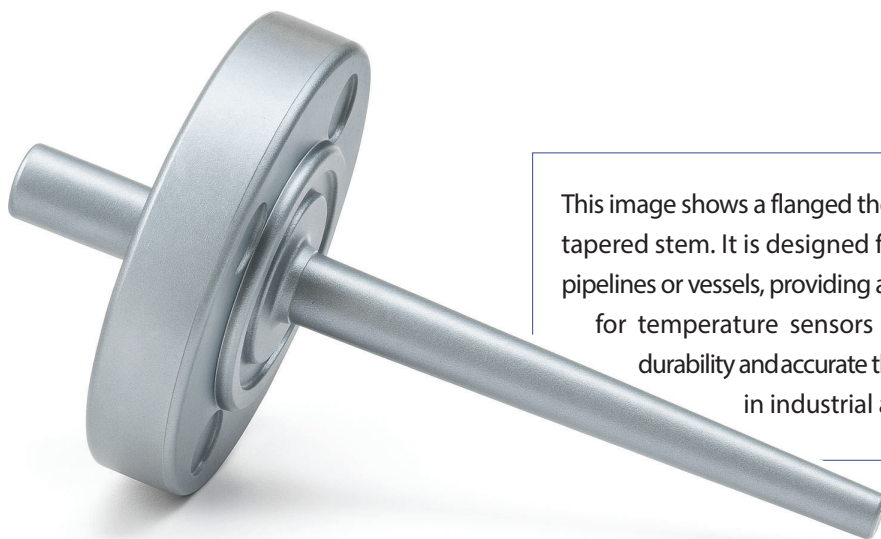
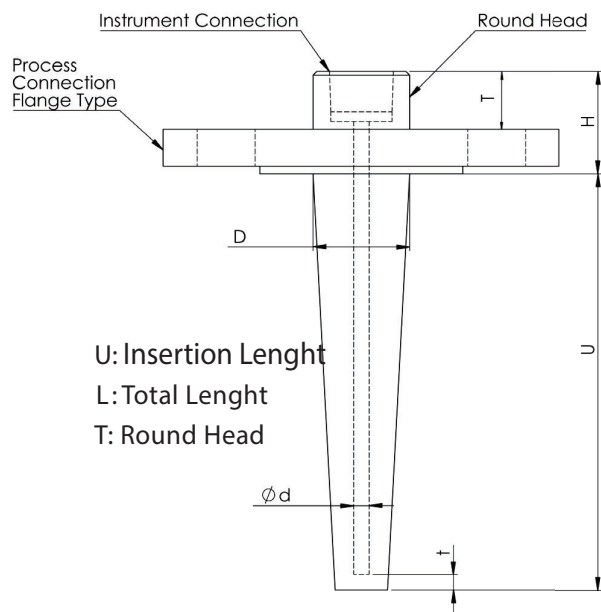
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7

Example: DTW1-T-2-U-6-4-A-1

Thermowell Structure

Illustration of a flanged thermowell showing key dimensions (U, D, d) and flange configuration. The design enables accurate temperature measurement with optimal thermal response.



This image shows a flanged thermowell with a tapered stem. It is designed for mounting in pipelines or vessels, providing a secure housing for temperature sensors while ensuring durability and accurate thermal response in industrial applications.

Threaded Type

DTW2

Thermowell

#1	THERMOWELL	
A	Step Shank(Standard)	
S	Straight Shank	
T	Tapered Shank	
X	Other Specify	
#2	BORE SIZE	
2	6mm	
3	8mm	
X	Other Specify	
#3	STEM	
U	Insertion Lenght (mm)	
T	Round Head (mm)	
#4	WELL AND MATERIAL	
E	F22	
F	F11	
C	Carbon Steel	
S	304 Stainless Steel, (304 L)	
J	310 Stainless Steel	
K	316 Stainless Steel (Standard), (316 L)	
M	Inconel 600	
N	Monel 400	
H	Hastelloy C-276	
T	Titanium	
X	Other Specify (i.e.: Teflon, PVC, Nickel, etc,...)	
#5	THREADED OR SOCKET WELD WELLS	
T	Threaded Well	
S	Socket Weld Well	
W	Weld - in (Tapered Shank Standard)	
X	Other Specify	
#6	THREADED WELLS/ EXTERNAL THREAD	SOCKET WELL WELDOLET SIZE
1	1/2" NPT	N/A
2	3/4" NPT	3/4" 1.050"Ø
3	1" NPT	1" 1.315"Ø
4	1 1/2" NPT	1 1/2" 1.900"
X	Other Specify	
#7	OPTION	
S	Coating XXX mm - (Material)	

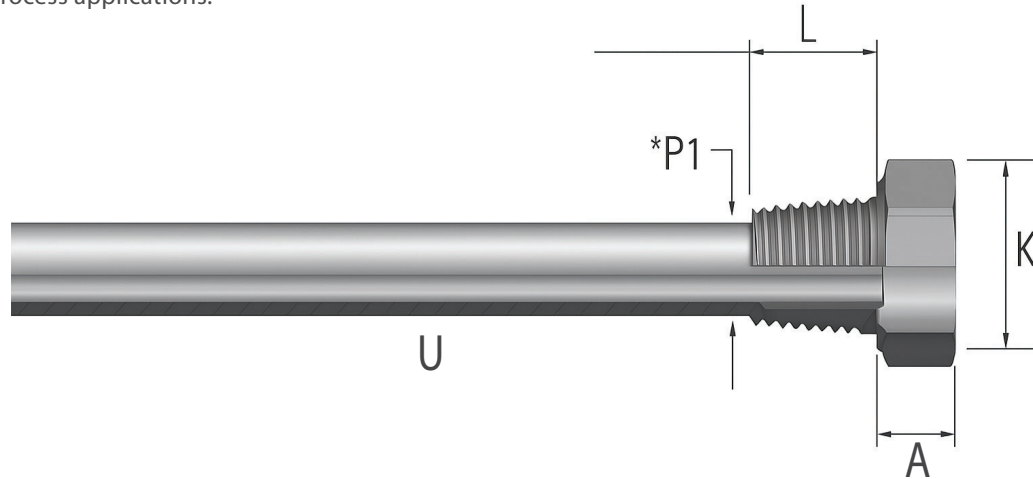
DTW2

1 2 3 4 5 6

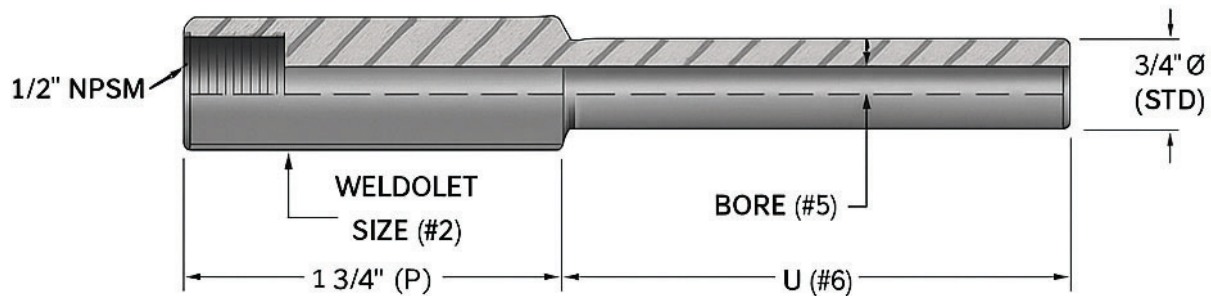
Example: DTW2-T-2-U-K-T-1

Mechanical Product

This illustration shows a threaded thermowell with key dimensions including insertion length (U), thread length (L), across flats (K), and thread extension (T). It is designed for direct threaded installation, ensuring secure fitting and reliable temperature measurement in process applications.



This illustration shows a straight thermowell with weld-o-let connection, including detailed dimensions for bore size, insertion length (U), and process connection. It is designed to provide secure installation and reliable temperature measurement in industrial systems.



This illustration presents a tapered thermowell with a 1/2" NPSM connection. The tapered design enhances strength and reduces vibration while ensuring accurate temperature measurement and efficient thermal response.

