Screwed Type Thermowell

General Description

Screwed Type thermowell are precision components manufactured to the highest standard from pipe, tube and bar to serve as "protective devices for primary sensing elements of all types."

A wide range of possible products are available.

Conditions of pressure, temperature, velocity and corrosion resistance govern the size, shape and selection of materials to ensure optimum dependability, response time and accuracy.



Standard Specification Overview

Stem Outdiameter

A wide variety of tube or pipe sizes in a variety of schedules subject to requirements and process conditions.

Material

A wide range of materials are available including 304, 316, 321 stainless steel, 446 Cr-Fe, Carbon Steel, Chromium Steels, Hastelloy C22, C276 and X, Incoloy 800, Inconel 600, Monel 600 and Titanum.

Instrument Connection

Female in NPT. PT. PF or other thread forms.

Process Connection

Connection to the pipe or vessel may be by means of thread Using standard tapered or parallel pipe threads for simplicity and low cost is popular, generally for low pressure applications Standard threads are NPT, BSP (Pl), BSP (Tr) and others.

The thread size is dependent on the application. Standard sizes range from $\frac{1}{2}$ " to 2".

Ordering Information for Thermowell

Model Description WI Hexagonal bar-stock screwed-in type with Lagging extension WE End close tube screwed-in type Code Internal thread WT WL WE F PF 1/2" A A A A T PT 1/2" A		● = Standard Products ▲ =	Available	NA = No	t Available
WL Hexagonal bar-stock screwed-in type Code Internal thread WT WL WE F PF 1/2" A A A T PT 1/2" A A A N NPT 1/2" A A A X Others A A A Code Process Connection type WT WL WE 1 NPT B B B B 2 PT B	Model	Description			
WE End close tube screwed-in type Code Internal thread WT WL WE F PF 1/2" A A A T PT 1/2" A A A N NPT 1/2" A A A X Others A A A Code Process Connection type WT WL WE 1 NPT B <td< td=""><td>WT</td><td>Hexagonal bar-stock screwed-in type</td><td></td><td></td><td></td></td<>	WT	Hexagonal bar-stock screwed-in type			
Code Internal thread WT WL WE F PF 1/2" A A A T PT 1/2" A A A N NPT 1/2" — A A X Others A A A Code Process Connection type WT WL WE 1 NPT —	WL	Hexagonal bar-stock screwed-in type with Lagging extension			
F PF 1/2" A A T PT 1/2" A A A N NPT 1/2" • • • X Others A A A X Others WT WL WE 1 NPT • • • • 2 PT •	WE	End close tube screwed-in type			
T PT 1/2" A A N NPT 1/2" • • X Others A A Code Process Connection type WT WL WE 1 NPT • • • • 2 PT • • • • • 3 PF •	Code	Internal thread	WT	WL	WE
N NPT 1/2" Image: Code of the content	F	PF 1/2"	•	•	A
X Others A A A Code Process Connection type WT WL WE 1 NPT • • • 2 PT • • • • 3 PF •	T	PT 1/2"	A	A	A
Code Process Connection type WT WL WE 1 NPT • • • • 2 PT •	N	NPT 1/2"	•	•	•
1 NPT ● ● ● 2 PT ● ● ● 3 PF ● ● ● Code Process Connection size WT WL WE F 1/2" ● ● ● H 3/4" ● ● ● J 1"" ● ● ● R 1 1/2" ● ● ● T 2" ● ● ● X Others ♥ ♥ ♥ X Others ♥ ♥ ♥ SS 316/316LSS ● ● ● MO Monel A A A HC Hastelloy C-276 A A A IN Incoley 800 A A A XX Others ♥ ♥ ♥ Code "T" Lagging length (mm) M A	Χ	Others	A	A	A
2 PT ● ● ● 3 PF ● ● ● Code Process Connection size WT WL WE F 1/2" ● ● ● H 3/4" ● ● ● ● J 1" ● ● ● ● P 11/4" ● <td>Code</td> <td>Process Connection type</td> <td>WT</td> <td>WL</td> <td>WE</td>	Code	Process Connection type	WT	WL	WE
Code Forcess Connection size WT VIL WE VIL F 1/2" • • • • • • • • • • • • • • • • • • •	1	NPT	•	•	•
Code Process Connection size WT WL WE F 1/2" ● ● ● H 3/4" ● ● ● J 1" ● ● ● P 1 1/4" ● ● ● R 1 1/2" ● ● ● T 2" ● ● ● X Others ● ● ● ● X Others ●	2	PT	•	•	•
F 1/2"	3	PF	•	•	•
H 3/4"	Code	Process Connection size	WT	WL	WE
J 1"	F	1/2"	•	•	•
P 1 1/4" ● ● ● R 1 1/2" ● ● ● T 2" ● <	Н	3/4"	•	•	•
R 11/2" ● ● ● T 2" ● ● ● X Others ♥ ♥ ♥ Code Well Material WT WL WE SF 304 SS ●	J	1"	•	•	•
T 2"	Р	1 1/4"	•	•	•
X Others ♥ ♥ ♥ Code Well Material WT WL WE SF 304 SS A A A SS 316/316L SS ● ● ● MO Monel A A A HC Hastelloy C-276 A A A IN Incoloy 800 A A A XX Others ♥ ♥ ♥ Code "T" Lagging length (mm) WT WL WE 45 45mm ● A A 50 50mm A A A 55 55mm A A A XX Others A	R	1 1/2"	•	•	•
Code Well Material WT WL WE SF 304 SS A A A SS 316/316L SS • • • • • MO Monel A	T	2"	•	•	•
SF 304 SS ■<	Χ	Others	(a)	c)	6 9
SS 316/316L SS ● ● ● MO Monel A A A HC Hastelloy C-276 A A A IN Inconel 600 A A A IC Incoloy 800 A A A XX Others ♥ ♥ ♥ Code "T" Lagging length (mm) WT WL WE 45 45mm A A A A 50 50mm A A A A 55 55mm A A A XX Others A A A XX Others A A A XX Others A A A Code "U" Insertion Length (mm) MT WL WE 0100 100mm A A A 0150 150mm A A A A	Code	Well Material	WT	WL	WE
MO Monel A A A HC Hastelloy C-276 A A A IN Inconel 600 A A A IC Incoloy 800 A A A XX Others WT WL WE 45 45mm WT WL WE 50 50mm A A A 55 55mm A A A XX Others A A A XX Others A A A Code "U" Insertion Length (mm) WT WL WE 0100 100mm A A A 0150 150mm A A A 0200 200mm A A A 0250 250mm A A A	SF	304 SS	•	•	•
HC Hastelloy C-276 A A A IN Inconel 600 A A A IC Incoloy 800 A A A XX Others WT WL WE Code "T" Lagging length (mm) WT WL WE 45 45mm A A A 50 50mm A A A 55 55mm A A A XX Others A A A XX Others A A A Code "U" Insertion Length (mm) WT WL WE 0100 100mm A A A 0200 200mm A A A 0200 250mm A A A	SS	316/316L SS	•	•	•
IN Inconel 600 A A A IC Incoloy 800 A A A XX Others Image: Code of the code	MO	Monel	A	A	A
IC Incoloy 800 A A A XX Others ♥ ♥ ♥ Code "T" Lagging length (mm) WT WL WE 45 45mm A A A 50 50mm A A A 55 55mm A A A XX Others A A A XX Others A A A Code "U" Insertion Length (mm) WT WL WE 0100 100mm A A A 0200 200mm A A A 0250 250mm A A A	НС	Hastelloy C-276	A	A	A
XX Others © © © Code "T" Lagging length (mm) WT WL WE 45 45mm •	IN	Inconel 600	A	A	A
Code "T" Lagging length (mm) WT WL WE 45 45mm ♠ ♠ ♠ ♠ 50 50mm ♠ ♠ ♠ ♠ 55 55mm ♠	IC	Incoloy 800	A	A	A
45 45mm ▲ ▲ ▲ 50 50mm ▲ ▲ ▲ 55 55mm ▲ ▲ ▲ 75 75mm ▲ ▲ ▲ XX Others A ▲ ▲ Code "U" Insertion Length (mm) WT WL WE 0100 100mm A A A 0150 150mm A A A 0200 200mm A A A 0250 250mm A A A	XX	Others	(a)	©	6 9
50 50mm ▲ <td>Code</td> <td>"T" Lagging length (mm)</td> <td>WT</td> <td>WL</td> <td>WE</td>	Code	"T" Lagging length (mm)	WT	WL	WE
55 55mm A A A 75 75mm A A A XX Others A A A Code "U" Insertion Length (mm) WT WL WE 0100 100mm A A A 0150 150mm A A A 0200 200mm A A A 0250 250mm A A A	45	45mm	•	•	•
75 75mm ▲ ▲ ▲ XX Others ♣ ▲ ▲ Code "U" Insertion Length (mm) WT WL WE 0100 100mm ▲ ▲ ▲ 0150 150mm ▲ ▲ ▲ 0200 200mm ▲ ▲ ▲ 0250 250mm ▲ ▲ ▲	50	50mm	A	A	A
XX Others A A A Code "U" Insertion Length (mm) WT WL WE 0100 100mm A A A 0150 150mm A A A 0200 200mm A A A 0250 250mm A A A	55	55mm	A	A	A
Code "U" Insertion Length (mm) WT WL WE 0100 100mm A A A 0150 150mm A A A 0200 200mm A A A 0250 250mm A A A	75	75mm	A	•	A
Code "U" Insertion Length (mm) WT WL WE 0100 100mm A A A 0150 150mm A A A 0200 200mm A A A 0250 250mm A A A	XX	Others	A	A	A
0100 100mm A A A 0150 150mm A A A 0200 200mm A A A 0250 250mm A A A	Code	"U" Insertion Length (mm)	WT	WL	WE
0200 200mm 0250 250mm ▲ ▲		I	1	1 1	
0250 250mm A A A	0150	150mm	A	A	A
	0200	200mm	A	A	A
0300 300mm A A A	0250	250mm	A	A	A
			A	A	A

XXXX	Others		A	_
Code	Туре	WT	WL	W
T	Tapered	•	•	NA
S	Straight	A	A	•
Р	Stepped	A	A	NA
Code	Bore diameter	WT	WL	WI
07	7mm	•	•	•
09	9mm	A	A	A
10	10mm	A	A	A
XX	Others	A	A	A
Code	Tip diameter	WT	WL	W
14	14	· •	A	_
16	16	A	A	A
17	17	A	A	A
19	19	A	A	A
Χ	Others	A	A	A
Code	Root diameter	WT	WL	W
14	14	· •	•	_
16	16	A	A	_
17	17	A	A	A
19	19	A	A	_
20	20	A	A	A
21	21	A	A	_
23	23	A	A	A
25	25	A	A	_
XX	Others	A	A	A
Code	Option	WT	WL	W
0	None	•	•	•
Α	Chain & Plug (304 SS)	A	A	A
В	Chain & Plug (316 SS)	A	A	_
L	PTFE Lining	A	A	A
С	Stellite coating	A	A	A
В	Buffing # 300	A	A	A
Н	Helium leak test	A	A	A
D	Dye penetration test	A	A	A
Χ	X-Ray Inspection	A	A	A
Р	hydrastatic pressure test	A	A	•
М	Macro test	A	A	•
V	Vortex breaker	A	A	•

^{*} The standard specification and price are subject to change without prior notice