



TW/WI WELD-IN TYPE THERMOWELL



TW/WI Weld-in Type Thermowell

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■ GENERAL

Thermowells are protecting tubes which are manufactured by solid bar stock or pipe material to protect thermocouples, resistance thermometers and other temperature sensors. Especially, they are used widely in critical applications where pressure, viscosity, fluid velocity, chemical and mechanical corrosive abrasive materials are present individually or in combination.

A properly selected thermowell will protect the temperature sensor from possible damage resulting from these process variables. A thermowell permits removal of the temperature sensors for replacement, repair or testing without effecting the process or system.

■ ELIMKO THERMOWELLS

Elimko thermowell types in process applications;

TW/T : Threaded Type
TW/F : Flanged Type

TW/W : Weld-in Socketed Type
TW/WI : Weld-in Type

TW/V : Vanstone Flanged Type

STANDART FEATURES

Bar Materials			Bore Diameter
ASTM A304	DIN 1.4571	INCOLOY 825	5.0 mm
ASTM A316 Ti	DIN 1.4749	HASTELLOY C4	6.0 mm
ASTM A316 L	DIN 1.4828	BRASS	6.6 mm
ASTM A310	DIN 1.4841	PTFE	7.0 mm
ASTM A321	DIN 1.7335 MOLIBDEN		8.0 mm
ASTM A446	INCONEL 600		9.0 mm
ASTM A105	INCOLOY 800		10.0 mm

Note 1: Elimko Thermowells can be produced additionally to the standart bore diameters, it is also possible to produce bore diameters from 4 mm to 22 mm, up to maximum 1200 mm length.

Note 2 : The above mentioned solid bar stock materials are our standart types. Special materials could be supplied upon receipt of satisfactory orders.

Others : Haynes 25, Carpenter, 20 CB, Nichrome, HCF, 50Co-30Cr, Monel 400, Titanium, Tantalum, X-750, B, C276, X.

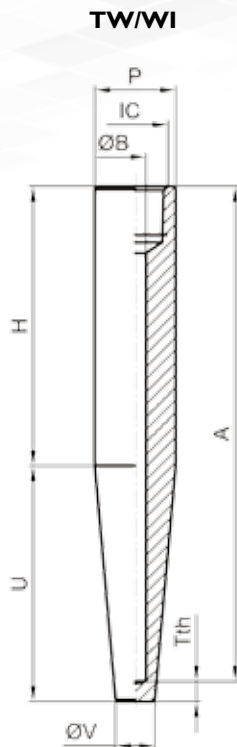
Note 3 : Satellite coating can be produced against abrasion.

Tests

Thermowells can be tested after produced on request. These tests are made by special institutions for a fea.

- a- Pressure tests
- b- X-ray tests

TW/WI WELD-IN TYPE THERMOWELL CODING



P : Welding Diameter
 Ø IC : Instrument Connection
 Ø B : Bore Diameter

H : Head Length
 U : Insertion Length
 A : Stem Length

Ø V : Type Diameter
 Tth : Type Thickness

TW	WI	01	02	03	04	05	06	07	08	09	10	11	12
		B	Pr/t	Pr/s	P	IC	H	U	A	V	Tth	Wm	O
		Bore Diameter	Production Type	Production Standard	Welding Diameter	Instrument Connection	Head Length	Insertion Length	Stem Length	Type Diameter	Type Thickness	Well Material	Options

TW	WI	Weld-in Type Thermowell	
WI	WI	Weld-in Type	
01	B	Bore Diameter	
B	Please write B diameter like B Example: B 6	
02	Pr/t	Production Type	
Pr/t	SB	Solid Bar Drilled	
	SBT	Solid Bar Tapered	
	P	Pipe	
03	Pr/s	Production Standard	
Pr/s	M	Metric	
	I	Non Metric	
04	P	Welding Diameter	
P	P01	24h7	
	P02	30h7	
	P21	1 1/2"	
	P....	*	
05	IC	Instrument Connection	
IC	IC01	M20x1.5	
	IC21	1/2" NPT	
	IC....	*	

06	H	Head Length	
H	Please write H length like H Example: H 150	
07	U	Insertion Length	
U	Please write U length like U Example: U 100	
08	A	Stem Length	
A	Please write A length like A Example: A 150	
09	V	Type Diameter	
V		Welding Diameter	
	V01	19 mm	P01 için B=6.6 mm
	V02	25 mm	P02 & P21 için B=6.6 mm
	V03	38 mm	P21 için B=10 mm
	V....	*	
10	Tth	Type Thickness	
Tth	Tth01	6 mm	
	Tth21	1/4"	
	Tth....	*	

11	Wm	Well Material	
Wm	Wm01	ASTM A304	
	Wm02	ASTM A316 Ti	
	Wm03	ASTM A316 L	
	Wm04	ASTM A310	
	Wm05	ASTM A321	
	Wm06	ASTM A446	
	Wm07	ASTM A105	
	Wm08	DIN 1.4571	
	Wm09	DIN 1.4749	
	Wm10	DIN 1.4828	
	Wm11	DIN 1.4841	
	Wm12	DIN 1.7335 MOLIBDEN	
	Wm13	INCONEL 600 **	
	Wm14	INCOLOY 800 **	
	Wm15	INCOLOY 825 **	
	Wm16	HASTELLOY C4 **	
	Wm17	MONEL 400 **	
Wm....	*		
12	O	Options	
O	O01	Screw Plug and Chain	
	O02	Tag No Written on SS Plate	
	O03	Pressure Test	
	O04	Material Certificate	
	O....	*	

* Please give the Process Connection (P), Instrument Connection (IC), Head Length (H), Type Length (L), Stem/Root Diameter (Q,QT, QSt), Type Diameter (V, VT, VSt), Type Thickness (Tth), Well Material (Wm), Flange Material (Fm) and Options (O) of the thermowells, if they are not exist on the tables.

** Please apply to Elimko for these kinds of well and flange materials.

■ EXAMPLES

TW/WI-B7-SB-M-P02-IC21-H76-U 125-A 195-V02-Tth01- Wm03-O01-O02

Well Type (TW) = TW/WI Weld-in Type Thermowell

Bore Diameter (B) = 7 mm, **Production Type (SB)** = Solid Bar Drilled,

Production Standard (M) = Metric, **Welding Diameter (P02)** = 30h7,

Instrument Connection (IC21) = 1/2" NPT,

Head Length (H) = 76 mm, **Insertion Length (U)** = 125 mm, **Stem Length (A)** = 195 mm,

Type Diameter (V02) = 16 mm, **Type Thickness (Tth01)** = 6 mm, **Well Material (Wm03)** = 316 L

Options (001) = Screw Plug and Chain / **(002)** = Tag No Written on SS Plate




■ HOW TO ORDER

Select one of the types of TW/T, TW/W, TW/W, TW/V, TW/F and TW/WI according to the process. And specify; thermowell material, process connection, connection type, type of the flange (if flanged), it's material, bore diameter, insertion length, length of connection.



The company's policy is one of continuous product improvement. We reserve the right to modify the information contained herein without notice.



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