



TW/T THREADED TYPE THERMOWELLS



**TW/TS Threaded Type
Straight Thermowell**



**TW/TT Threaded Type
Tapered Thermowell**



**TW/TSt Threaded Type
Stepped Thermowell**

■ 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.

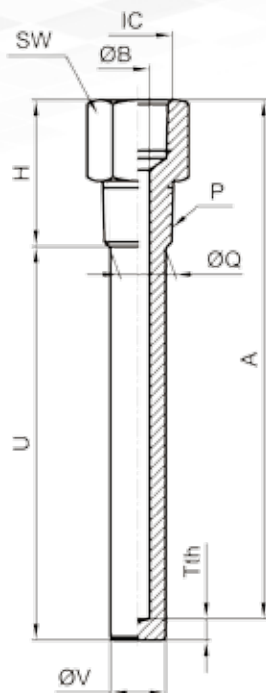
Tests

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

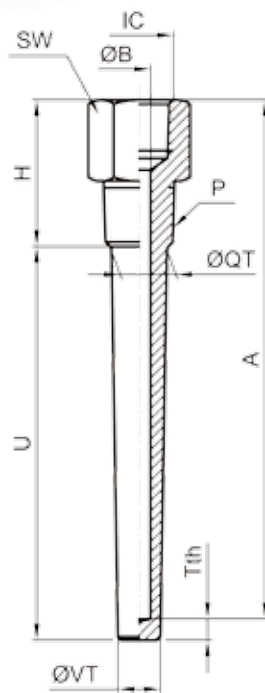
- a- Pressure tests
- b- X-ray tests

TW/T THREADED TYPE THERMOWELLS CODING

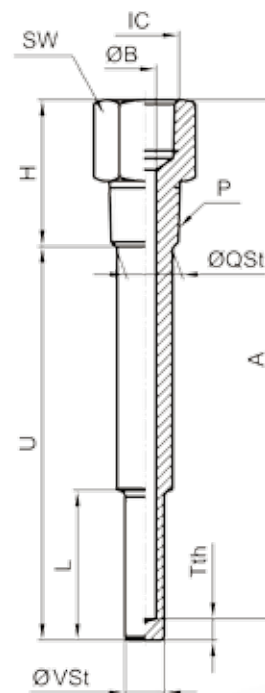
TW/TS Straight



TW/TT Tapered



TW/TSt Stepped



SW : Hexagonal Material Diameter
 Ø IC : Instrument Connection
 Ø B : Bore Diameter
 P : Process Connection

H : Head Length
 U : Insertion Length
 A : Stem Length
 Ø Q/QT/QSt : Stem/Root Diameter

Ø V/VT/VSt : Type Diameter
 Tth : Type Thickness
 L : Type Length

TW	T	01	02	03	04	05	06	07	08	09	10	11	12	13	14
		B	Pr/t	Pr/s	P	IC	H	U	L	A	Q	V	Tth	Wm	O
	Type	Bore Diameter	Production Type	Production Standard	Process Connection	Instrument Connection	Head Length	Insertion Length	Type Length	Stem Length	Stem/Root Diameter	Type Diameter	Type Thickness	Well Material	Options

TW	T	Threaded Type Thermowells
	TS	Straight Type
	TT	Tapered Type
	TSt	Stepped Type

01	B	Bore Diameter
B		Please write B diameter like B Example: B 6

02	Pr/t	Production Type
	SB	Solid Bar Drilled
	SBT	Solid Bar Tapered
	P	Pipe

03	Pr/s	Production Standard
	M	Metric
	I	Non Metric

04	P	Process Connection
		P HEX (SW)
	P21	1/2" NPT 27 mm
	P22	3/4" NPT 32 mm
	P23	1" NPT 36 mm
	P....	*

05	IC	Instrument Connection
	IC01	M20x1.5
	IC21	1/2" NPT
	IC....	*

06	H	Head Length (No Extension)
		Process Connection
	H01	45 mm min for P22 & P23
	H02	50 mm min for P21
	H21	1 3/4" min for P22 & P23
	H22	2.0" *1 min for P21
	H....	*

*1 HEX (SW) length's 1-1/8" (30 mm) and thread length's 7/8 " (22 mm) for P21 Process Connection

07	U	Insertion Length
U		Please write U length like U Example: U 100

08	L	For TW/TSt Type Length
	L00	No Stepped
	L01	50 mm
	L02	65 mm
	L21	2"
	L22	2 1/2"
	L....	*

09	A	Stem Length
A		Please write A length like A Example: A 150

10	Q	For TW/TS Stem/Root Diameter
		Process Connection
	Q01	16 mm for P21
	Q02	19 mm for P22
	Q03	22 mm for P23
	Q21	5/8" for P21
	Q22	3/4" for P22
	Q23	7/8" for P23
	Q....	*

10	QT	For TW/TT Stem/Root Diameter
		Process Connection
	QT01	16 mm for P21
	QT02	22 mm for P22
	QT03	27 mm for P23
	QT21	5/8" for P21
	QT22	7/8" for P22
	QT23	1 1/16" for P23
	QT....	*

10	QSt	For TW/TSt Stem/Root Diameter
		Process Connection
	QSt01	16 mm for P21
	QSt02	19 mm for P22
	QSt03	22 mm for P23
	QSt04	25 mm for P23
	QSt21	5/8" for P21
	QSt22	3/4" for P22
	QSt23	7/8" for P23
	QSt24	1" for P23
	QSt....	*

* 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.

11	V	For TW/TS Type Diameter	
V			Process Connection
	V01	16 mm	for P21
	V02	19 mm	for P22
	V03	22 mm	for P23
	V21	5/8"	for P21
	V22	3/4"	for P22
	V23	7/8"	for P23
	V....	*	

11	VT	For TW/TT Type Diameter	
VT			Process Connection
	VT01	12,7 mm	P21 için
	VT02	16 mm	P22 için
	VT03	19 mm	P23 için
	VT21	1/2"	P21 için
	VT22	5/8"	P22 için
	VT23	3/4"	P23 için
	VT....	*	

11	VSt	For TW/TSt Type Diameter	
VSt	VSt01	12,7 mm	
	VSt21	1/2"	
	VSt....	*	

12	Tth	Type Thickness
Tth	Tth01	6 mm
	Tth21	1/4"
	Tth....	*

13	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 **
	Wm18	BRASS
	Wm19	PTFE
	Wm....	*

14	O	Options
O	O01	Screw Plug and Chain
	O02	Tag No Written on SS Plate
	O03	Pressure Test
	O04	Material Certificate
	O....	*

■ EXAMPLES

TW/TT- B0.260"-SB-I-P22-IC21-H21-U10 1/2"-L00-A12"-QT22-VT22-Tth21-Wm03-O01-O02

Well Type (TW) = TW/TT Threaded Type Tapered Thermowell,
Bore Diameter (B) = 0,260", **Production Type (SB)** = Solid Bar Drilled,
Production Standard (I) = Non-Metric, **Process Connection (P22)** = 3/4" NPT,
Instrument Connection (IC21) = 1/2" NPT, **Head Length (H21)** = 1 3/4",
Insertion Length (U) = 10 1/2", **Type Length (L00)** = No Stepped, **Stem Length (A)** = 12",
Stem/Root Diameter (QT22) = 7/8", **Type Diameter (VT22)** = 5/8",
Type Thickness (Tth21) = 1/2", **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.



in /elimkoldsti
f /elimkoldsti
yt /elimkoldsti