

# Thermowells

## Type TW.TH/TW15

WIKA Datasheet TW.TH/TW15

### Application

Thermowells for temperature instruments are recommended for all process systems where pressure, velocity or viscous, abrasive and corrosive materials are present individually or in combination. A properly selected thermowell will protect the temperature instrument from possible damage resulting from these process variables.

Furthermore, a thermowell permits removal of the temperature instrument for replacement, repair or testing without effecting the process media or the system.

### Standard Features

#### Process connections

Threaded

#### Instrument connection

½" NPSM Standard

#### Shank configurations

Stepped, straight, tapered

#### Bore diameter

.260", .385"

#### Materials

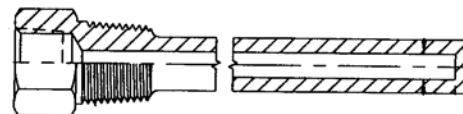
Brass, AISI 304, AISI 316  
(Other materials available upon request)

#### Surface finish

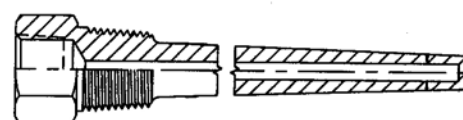
Brass: 60-100 Ra  
AISI 304 & AISI 316: 60-100 Ra

### Ordering Information

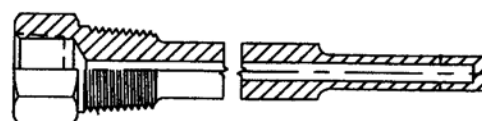
See current WIKA Catalog or WIKA Price List for ordering information.



Straight Configuration

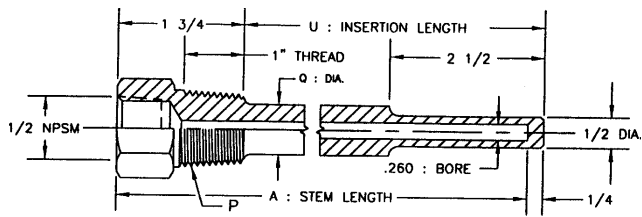


Tapered Configuration

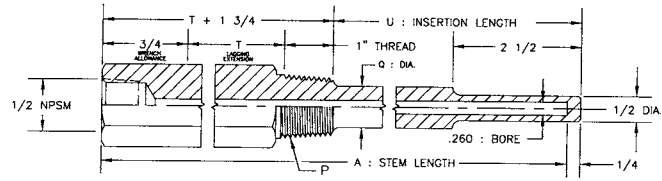


Stepped Configuration

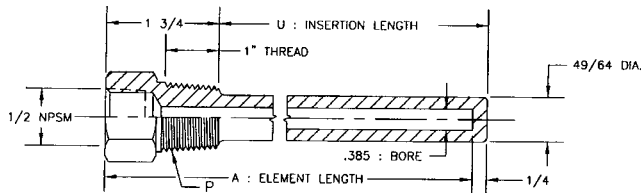
WIKA type TH2R, .260 bore, no lag



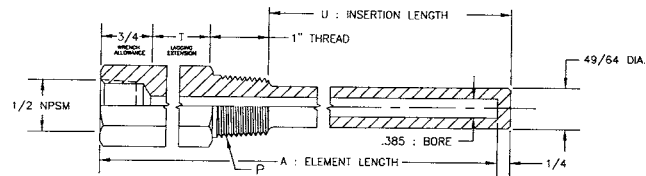
WIKA type TH2LR, .260 bore, with lag



WIKA type TH3S, .385 bore, no lag



WIKA type TH3LS, .385 bore, with lag



Types TH2R & TH2LR		
P	HEX	Q
1/2" NPT	1 1/8"	5/8"
3/4" NPT	1 1/8"	3/4"
1" NPT	1 3/8"	7/8"

Types TH3S & TH3LS		
P	HEX	Q
3/4" NPT	1 1/8"	NA
1" NPT	1 3/8"	NA

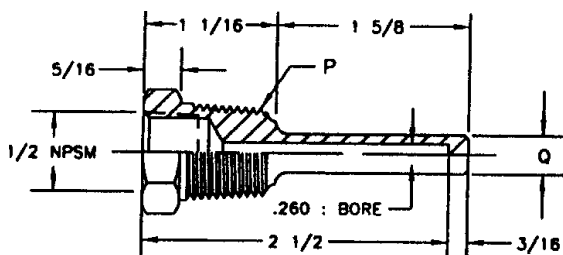
Types TH2R & TH3S	
U Dim	A Dim
1 5/8"	2 1/2"
2 1/2"	4"
4 1/2"	6"
7 1/2"	9"
10 1/2"	12"
13 1/2"	15"
16 1/2"	18"
22 1/2"	24"

Types TH2LR & TH3LS		
U Dim	A Dim	T Dim
2 1/2"	6"	2"
4 1/2"	9"	3"
7 1/2"	12"	3"
10 1/2"	15"	3"
13 1/2"	18"	3"
19 1/2"	24"	3"

\* See dimensions below

- NOTES:
1. 1/2" NPT with 1 5/8" U dimension (Type TH2R) not recommended. Consult factory if required.
  2. 1 5/8" and 2 1/2" U dimensions have straight shanks, 1/2" O.D. (Types TH2R and TH2LR).
  3. On 1/2" NPT external threaded wells, the 1" thread allowance and 3/4" wrench allowance dimensions are reversed.

Dimensions for types with 1 5/8" U dimension

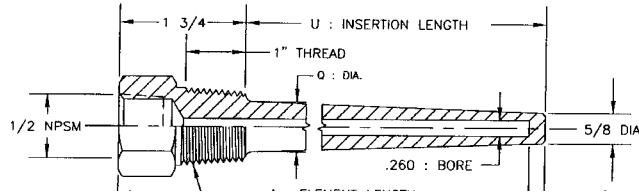


P	Bore	Q
3/4" NPT	.260"	1/2"
1" NPT	.260"	1/2"
3/4" NPT	.385"	49/64"
1" NPT	.385"	49/64"

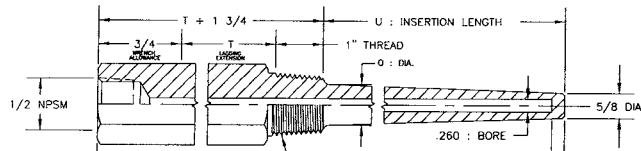
Standard materials

Brass, AISI 304, AISI 316  
(others available on application)

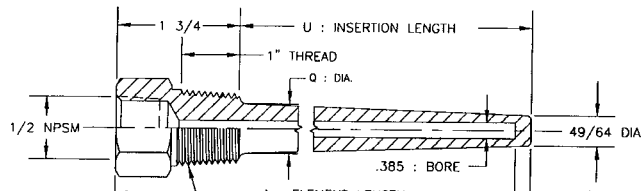
### WIKA type TH2T, .260 bore, no lag



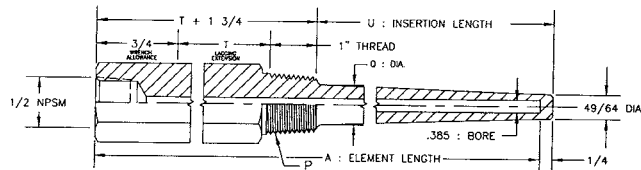
### WIKA type TH2LT .260 bore, with lag



### WIKA type TH3T, .385 bore, no lag



### WIKA type TH3LT .385 bore, with lag



Types TH2T & TH2LT		
P	HEX	Q
1/2 NPT	1 1/8"	5/8"
3/4 NPT	1 1/8"	3/4"
1 NPT	1 3/8"	7/8"

Types TH3T & TH3LT		
P	HEX	Q
1/2 NPT	1 1/8"	7/8"
1 NPT	1 3/8"	1 1/16"

Types TH2T & TH3T	
U Dim	A Dim
2 1/2"	4
4 1/2"	6"
7 1/2"	9"
10 1/2"	12"
13 1/2"	15"
16 1/2"	18"
22 1/2"	24"

Types TH2LT & TH3LT		
U Dim	A Dim	T Dim
2 1/2"	6	2
4 1/2"	9	3
7 1/2"	12	3
10 1/2"	15	3
13 1/2"	18	3
19 1/2"	24	3

NOTES: Tip diameter of 5/8" is reduced to 1/2" on the 1/2" NPT process connection (Types TH2T and TH2LT).

#### Standard materials

AISI 304, AISI 316

(others available on application)

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1 2 3 4 5 6 7 8 9 10 11 12 13

1 - Head design	
Code	
H	Hexagon
M	Round with hexagon
R	Round with wrench flats

2 - Thermowell style	
A	Tapered
B	Straight
C	Stepped

3 - Unit of measure	
I	Imperial
M	Metric

4 - Process thread (P)	
ND	1/2 NPT
NE	3/4 NPT
NF	1 NPT

5 - Instrument connection	
UD	1/2 NPT female
UF	1/2 NPT-CSA female
GF	1/2 NPSM
UE	3/4 NPT female
TD	1G 1/2 female

6 - Insertion length (U)	
*****	Please specify; maximum 62 inch (1575 mm) (e.g. 8.5 inch = 08500) (e.g. 240 mm = 00240)

7 - Head length (H)	
01750	1.75"
02000	2.00"
00045	45 mm
00050	50 mm
****	Please specify (e.g. 1.5" = 01500) (e.g. 48 mm = 00048)

8 - Material	
G3	316/316L SS
G1	304/304L SS
F1	Carbon steel A105
G5	310 SS
G6	321 SS
G8	347 SS
G4	316H SS
G2	304H SS
H1	Carbon steel F11
H2	Carbon steel F22
H3	Carbon steel F5
H4	Carbon steel F9
H5	Carbon steel F91
B1	Inconel® 600
B2	Inconel® 601
B3	Inconel® 625
C1	Incoloy 800H/HT
C2	Incoloy 825
A5	Titanium grade II
D1	Monel® 400
E1	Nickel 200
E2	Nickel 201
A2	Hastelloy® C-276
A1	Hastelloy® B-2
A3	Hastelloy® C-4
I1	410 SS
I2	446 SS
A4	Hastelloy® C-22
L6	Duplex 1.4462 SS
L5	1.4571 SS
L1	Carbon steel 1.7335 (13CrMo44)
L4	Carbon steel 1.5415 (15Mo3/16Mo3)
L2	Carbon steel 1.7380 (10CrMo910)
L3	Carbon steel 1.0460 (C22.8)
F2	Carbon steel 1018

9 - Bore size (B)	
A	0.260" (6.6 mm)
B	0.335" (8.5 mm)
C	0.512" (13 mm)
D	0.702" (17.8 mm)
M	0.335" (8.5 mm)

10 - Root diameter (Q)	
0625	0.625"
0750	0.750"
0875	0.875"
1000	1.000"
1063	1.063"
0160	16 mm
0220	22 mm
0270	27 mm
*****	Please specify (e.g. 1.5" = 1500) (e.g. 24 mm = 0240)

11 - Tip diameter (V)	
0500	0.500"
0625	0.625"
0750	0.750"
0875	0.875"
0130	13 mm
0160	16 mm
0190	19 mm
0220	22 mm
*****	Please specify (e.g. 0.625" = 0625) (e.g. 24 mm = 0240)

12 - RTD / TC / Thermometer assembly	
1A	TR10 Industrial RTD assembly
1B	TC10 Industrial TC assembly
1C	TR15 Remote RTD assembly
1D	TC15 Remote TC assembly
1F	TR75 DiwiTherm®
YY	Dial thermometer (Bimetal / Gas-actuated)
ZZ	Without

12 - Certificates	
1	Quality certificates
Z	Without

13 - Additional order details	
T	Additional text
Z	Without

