

# Thermowells

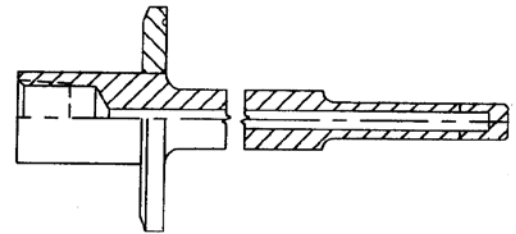
## Type TW.SC/TW30

WIKA Datasheet TW.SC/TW30

### 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.



Sanitary Configuration

### Standard Features

#### Process connections

Sanitary

#### Instrument connection

 $\frac{1}{2}$ " NPSM Standard

#### Bore diameter

.260", .385"

#### Materials

Brass, AISI 304, AISI 316

(Other materials available upon request)

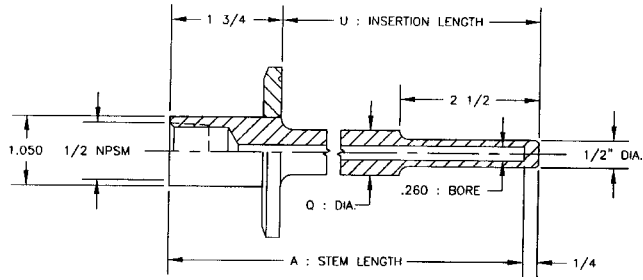
#### Surface finish

Sanitary (AISI 304 &amp; AISI 316):16-20 Ra

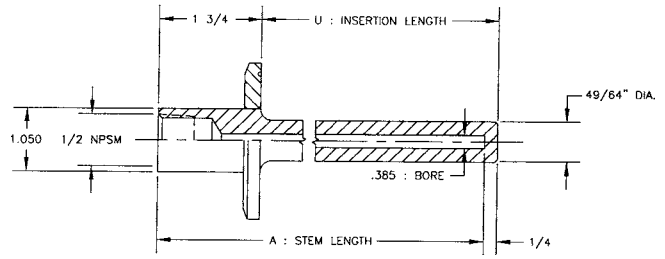
### Ordering Information

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

WIKA type SC2R, .260 bore



WIKA type SC3S, .385 bore



Types SC2R & SC3S	
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"

Type SC2R	
U Dim	A Dim
2 1/2"	2 1/2"
4 1/2"	3/4"
7 1/2"	"
10 1/2"	"
13 1/2"	"
16 1/2"	"
22 1/2"	"

Sanitary wells polished to 16-20 Ra

**Standard materials**  
 AISI 304, AISI 316  
 (Others available upon request)

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1 - Thermowell style	
Code	
A	Tapered
B	Straight
C	Stepped

2 - Unit of measure	
I	Imperial
M	Metric

3 - Flange size (Fs)	
A	ASME 1"
C	ASME 1 1/2"
D	ASME 2"

4 - Pressure rating	
D	150 psig
E	300 psig
F	400 psig
H	600 psig
J	900 psig
K	1,500 psig
L	2,500 psig

5 - Pipe schedule / Intern. nozzle dia.	
2	Schedule 40 (Std. North America)
3	Schedule 80
1	Schedule 160
4	Schedule XXS
N	WIKA (Standard Germany)

6 - Instrument connection	
TD	G 1/2 female
UD	1/2 NPT female

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

8 - Head length (H)	
02250	2.25"
03250	3.25"
00057	57 mm
00083	83 mm
****	Please specify (e.g. 1.5" = 01500) (e.g. 48 mm = 00048)

9 - Bar diameter (Bd)	
P	1.315" (33.4 mm)
K	1.900" (48.3 mm)
Q	2.375" (60.3 mm)

10 - 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

11 - Bore size (B)	
A	0.260" (6.6 mm)
B	0.335" (8.5 mm)
M	0.335" (8.5 mm)

12 - Root diameter (Q)	
0750	0.750"
1063	1.06"
0190	19 mm
0270	27 mm
*****	Please specify (e.g. 1.5" = 1500) (e.g. 24 mm = 0240)

13 - Tip diameter (V)	
0500	0.500"
0625	0.625"
0750	0.750"
0127	12.7 mm
0160	16 mm
0190	19 mm
*****	Please specify (e.g. 0.625" = 0625) (e.g. 24 mm = 0240)

14 - 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

15 - Certificates	
1	Quality certificates
Z	Without

16 - Additional order details	
T	Additional text
Z	Without

