

Thermowells

Type TW.WI/TW25

WIKA Datasheet TW.WI/TW25

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.



Weld-in Configuration

Standard Features

Process connections

1½" nominal pipe size

Instrument connection

½" NPSM Standard

Bore diameter

.260", .385"

Materials

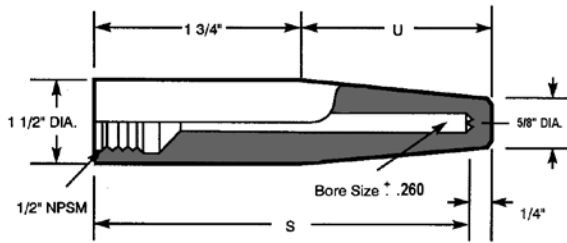
304 SS, 316 SS, Carbon steel
(Other materials available upon request)

Surface finish

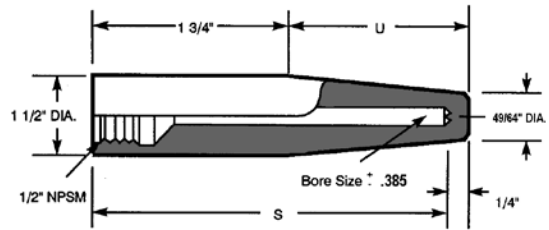
AISI 304 & AISI 316: 16-32 Ra

Ordering Information

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



WI2T



WI3T

Well type	Stem length S	Insertion length U
1 1/2"	4"	2 1/2"
	6"	4 1/2"
	9"	7 1/2"
	12"	10 1/2"
	15"	13 1/2"
	18"	16 1/2"
	24"	22 1/2"

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Pressure- Temperature Rating							
Material	Temperature - °F (W12T)						
	70°	200°	400°	600°	800°	1000°	1200°
Carbon steel	5,950	5,750	5,450	5,50	4,000	1,750	
A.I.S.I. - 304	7,800	7,050	6,400	6,150	6,000	5,190	1,875
A.I.S.I. - 316	7,800	7,800	7,250	7,100	6,950	5,800	2,720
F-11	7,350	7,350	7,350	7,350	7,350	2,898	504
F-22	7,224	7,224	7,224	7,224	7,098	3,192	546

Pressure- Temperature Rating							
Material	Temperature - °F (W13T)						
	70°	200°	400°	600°	800°	1000°	1200°
Carbon steel	5,200	5,000	4,800	4,600	3,500	1,500	
A.I.S.I. - 304	7,000	6,200	5,600	5,400	5,200	4,500	1,650
A.I.S.I. - 316	7,000	7,000	6,400	6,200	6,100	5,100	2,500
F-11	6,562	6,562	6,562	6,562	6,562	2,587	450
F-22	6,450	6,450	6,450	6,450	6,337	2,850	487

Well type	Material	Insertion length - U							
		2 1/2	4 1/2	7 1/2	10 1/2	13 1/2	16 1/2	19 1/2	22 1/2
1 1/2" WI2T	Carbon steel	493 (306)	220 (170)	79.4	40.5	24.5	16.4	11.7	8.8
	A.I.S.I. - 304 & 316	539 (148)	223.5 (231)	84	42.8	25.9	17.3	12.4	9.3
	F-11 or F-22	549 (451)	237 (235)	85.5	43	26.4	17.6	12.6	9.5
1 1/2" WI3T	Carbon steel	451 (286)	269 (159)	96.9	49	29.9	20	14	10.7
	A.I.S.I. - 304 & 316	531 (385)	285 (220)	102	52	31.6	21.2	15	11.4
	F-11 or F-22	542 (392)	290 (224)	104	53.2	32	21.5	15.4	11.6

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

1 - Thermowell style	
Code	
A	Tapered
B	Straight
C	Stepped

2 - Unit of measure	
I	Imperial
M	Metric

3 - Head diameter (P)	
*****	Please specify; minimum 1" (25.4 mm) (e.g. 1.5" = 1500) (e.g. 28 mm = 0280)

4 - Instrument connection	
GF	1/2 NPSM
TD	G 1/2 female
UD	2 NPT female

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

6 - Head length (H)	
01750	1.75"
00045	45 mm
****	Please specify (e.g. 1.5" = 01500) (e.g. 48 mm = 00048)

7 - 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

8 - Bore size (B)	
A	0.260" (6.6 mm)
M	0.335" (8.5 mm)
B	0.385" (9.8 mm)

9 - Root diameter (Q)	
*****	Please specify (e.g. 1.375" = 1375) (e.g. 24 mm = 0240)

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

11 - 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

