

Badotherm thermowell model TW112 is a built-up, fabricated type thermowell with a flanged process connection. The construction is available with straight stem. The standard material is AISI 316(L). Thermowells are designed to protect the temperature bulb from corrosive effect or other process conditions. It also allows replacing the temperature instrument without disturbing the process.



STANDARD EXECUTION

TYPE	THERMOWELL	CONSTRUCTION	INSIDE DIAMETER	OUTSIDE DIAMETER
built-up	AISI 316(L)	straight	7.0 mm	12.0 mm

LENGTH
customer specific

PROCESS CONNECTIONS

ASME B16.5

size	rating	facing
1"	cl. 150 - cl. 300	RF
1.25"	cl. 150 - cl. 300	RF
1.5"	cl. 150 - cl. 300	RF
2"	cl. 150 - cl. 300	RF
2.5"	cl. 150 - cl. 300	RF
3"	cl. 150 - cl. 300	RF
4"	cl. 150 - cl. 300	RF

EN 1092-1

size	rating	facing type
DN25	PN10-40	B1
DN40	PN10-40	B1
DN50	PN10-40	B1
DN80	PN10-40	B1
DN100	PN10-40	B1

INSTRUMENT CONNECTIONS AND STEM DIMENSIONS

size (F1)	thread	
1/2"	NPT	female
1/2"	BSP	female
M18x1.5	METRIC	female
M20x1.5	METRIC	female

inside diameter (d)	outside diameter (B)	tube size
7	9	9x1
7	10	10x1.5
7	12	12x2.5
9	12	12x1.5
9	14	14x2.5
10	14	12x2
11	14	14x1.5
12	15	15x1.5

All dimensions in mm

WETTED PART AND BODY MATERIALS, AND FACING OPTIONS

wetted part material	flange material
AISI 316(L)	AISI 316(L)

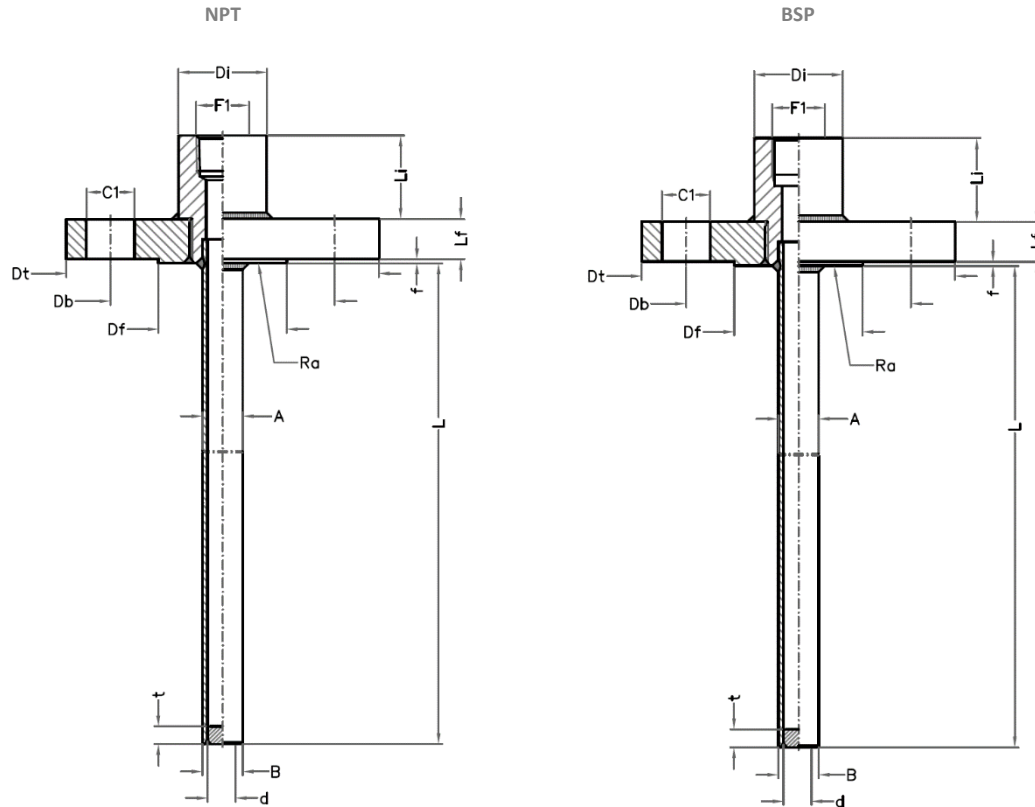
facing (ASME B16.5)	
RF	Ra 3.2-6.3 µm

facing type (EN 1092-1)	
B1	Ra 3.2-12.5 µm

OPTIONS

- coatings: PTFE/ ECTFE for anti-stick purpose only, PFA
- dye penetrant test, outside pressure test
- stainless steel plug & chain
- tantaline treatment

DRAWING AND DIMENSIONS STANDARD EXECUTIONS



ASME B16.5 - RF FACING

size	rating	A = B ¹	D _b	D _f	D _i	D _t	d ¹	f	L	L _f	L _i	C1/pcs
1"	cl. 150	9	80	51	35	110	7	2	various	13	50	16 / 4x
1"	cl. 300	9	89	51	35	125	7	2	various	16	50	19 / 4x
1.25"	cl. 150	9	89	64	35	115	7	2	various	16	50	16 / 4x
1.25"	cl. 300	9	98	64	35	135	7	2	various	18	50	19 / 4x
1.5"	cl. 150	9	98	73	35	125	7	2	various	16	50	16 / 4x
1.5"	cl. 300	9	114	73	35	155	7	2	various	19	50	22 / 4x
2"	cl. 150	9	121	92	35	150	7	2	various	18	50	19 / 4x
2"	cl. 300	9	127	92	35	165	7	2	various	21	50	19 / 8x
2.5"	cl. 150	9	140	105	35	180	7	2	various	21	50	19 / 4x
2.5"	cl. 300	9	149	105	35	190	7	2	various	24	50	22 / 8x
3"	cl. 150	9	152	127	35	190	7	2	various	22	50	19 / 4x
3"	cl. 300	9	168	127	35	210	7	2	various	27	50	22 / 8x
4"	cl. 150	9	191	157	35	230	7	2	various	22	50	19 / 8x
4"	cl. 300	9	200	157	35	255	7	2	various	30	50	22 / 8x

All dimensions in mm
¹ minimum dimensions

EN 1092-1 - TYPE B1

size	rating	A = B ¹	D _b	D _f	D _i	D _t	d ¹	f	L	L _f	L _i	C1
DN25	PN10-40	9	85	68	35	115	7	2	various	16	50	14 / 4x
DN40	PN10-40	9	110	88	35	150	7	3	various	15	50	18 / 4x
DN50	PN10-16	9	125	102	35	165	7	3	various	15	50	18 / 4x
DN50	PN25-40	9	125	102	35	165	7	3	various	17	50	18 / 4x
DN80	PN10-16	9	160	138	35	200	7	3	various	17	50	18 / 8x
DN80	PN25-40	9	160	138	35	200	7	3	various	21	50	18 / 8x
DN100	PN10-16	9	180	158	35	220	7	3	various	17	50	18 / 8x
DN100	PN25-40	9	190	162	35	235	7	3	various	21	50	22 / 8x

All dimensions in mm
¹ minimum dimensions



Holland – United Kingdom – Romania – India – Thailand – Dubai

To our knowledge, the information contained herein is accurate as of the date of this document. However neither Badotherm, nor its affiliates makes any warranty, express or limited, or accepts any liability in connection with this information or its use. This information is for technical skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other product. The user alone finally determines suitability of any information or material in contemplated use, the manner of use and whether any patents are infringed. This information gives typical properties only.

Badotherm reserves the right to make changes to the specifications and materials without prior notice. The latest version of the datasheet can be found on www.badotherm.com.

© 2001 Badotherm, all rights reserved. Trademarks and/or other products referenced herein are either trademarks or registered trademarks of Badotherm.