

Badotherm thermowell model TW111 is a built-up, fabricated type thermowell with a threaded 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

size (F)	thread		gasket surface
1/2"	BSP	male	ISO 1179-4
1/2"	NPT	male	
3/4"	BSP	male	ISO 1179-4
3/4"	NPT	male	
1"	BSP	male	ISO 1179-4
1"	NPT	male	
M20x1.5	METRIC	male	ISO 9974-3
M27x2.0	METRIC	male	ISO 9974-3
M32x2.0	METRIC	male	ISO 9974-3

INSTRUMENT CONNECTIONS AND STEM DIMENSIONS

size (F1)	thread		inside diameter (d)	outside diameter (B)	tube size
1/2"	NPT	female	7	9	9x1
1/2"	BSP	female	7	10	10x1.5
M18x1.5	METRIC	female	7	12	12x2.5
M20x1.5	METRIC	female	9	12	12x1.5
			9	14	14x2.5
			10	14	12x2
			11	14	14x1.5
			12	15	15x1.5

All dimensions in mm

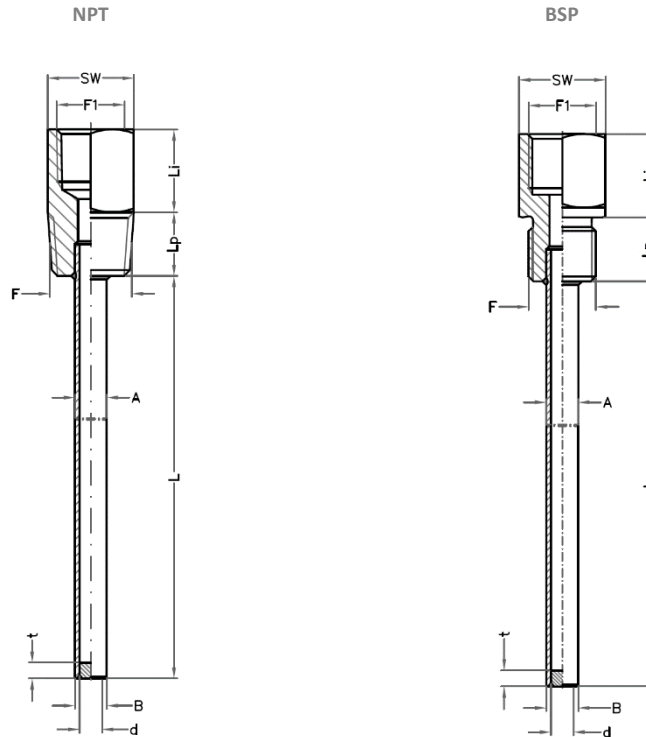
WETTED PART MATERIALS AND THREADS

stem material	threads	norms
AISI316(L)	NPT	ANSI B1.20.1
	BSP	ISO 228
	METRIC	ISO 965

OPTIONS

- dye penetrant test, inside pressure test
- stainless steel plug & chain
- tantaline treatment

DRAWINGS AND DIMENSIONS STANDARD EXECUTIONS



ANSI B1.20.1

F	F1	A = B <sup>1</sup>	d <sup>1</sup>	L	Li	Lp	SW	t
1/2"NPT	1/2"NPT	9	7	various	26	20	22	6
3/4"NPT	1/2"NPT	9	7	various	26	20	27	6
1"NPT	1/2"NPT	9	7	various	26	25	36	6

All dimensions in mm  
<sup>1</sup> minimum dimensions

ISO 228 – WITH ISO 1179-3 GASKET SURFACE

F	F1	A = B <sup>1</sup>	d <sup>1</sup>	L	Li	Lp	SW	t
1/2"BSP	1/2"BSP	9	7	various	26	25	30	6
3/4"BSP	1/2"BSP	9	7	various	26	25	36	6
1"BSP	1/2"BSP	9	7	various	26	25	46	6

All dimensions in mm  
<sup>1</sup> minimum dimensions

ISO 965 – WITH ISO 9974-3 GASKET SURFACE

F	F1	A = B <sup>1</sup>	d <sup>1</sup>	L	Li	Lp	SW	t
M20x1.5	M20x1.5	9	7	various	26	25	30	6
M27x2.0	M20x1.5	9	7	various	26	25	36	6
M32x2.0	M20x1.5	9	7	various	26	25	46	6

All dimensions in mm  
<sup>1</sup> minimum dimensions