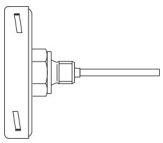
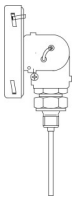
BIMETAL-POINTER-THERMOMETER
bayonet case

DRUCK & TEMPERATUR

Chemical version according to EN 13 190
IP65



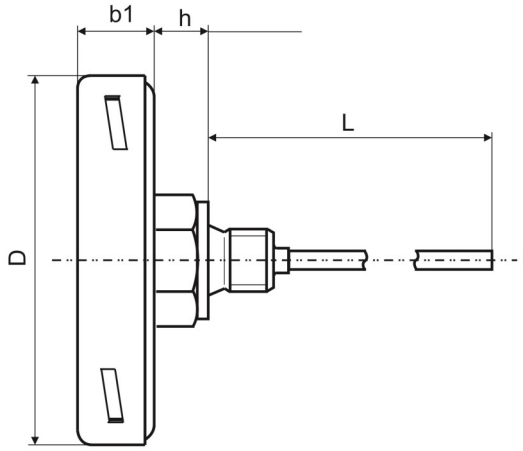
Areas of application:
Chemical and petrochemical industries
Food industry
Plastic and paper industry
Machine and apparatus construction

Type	B11			B12			B13			Options
Nominal size	63	100	160	63	100	160	63	100	160	
Form										Nominal size 80 mm, 125 mm
Connection position	back			bottom			angled			B11/B12 radial at 3, 9 or 12 o´clock
Accuracy	Kl. 1									
Display range °C	0...60, 0...80, 0...100, 0...120, 0...160, 0...200, 0...300, 0...400, 0...500, 0...600, -50/+50, -40/+40, -40/+60, -30/+50, -30/+70, -20/+40, -20/+60, -20/+80, 50...300									
Application	Constant load: measurig range short-term load (up to one hour): 1,1 x measuring range									
Maximum operating pressure	25 bar									
Case / ring	Bayonet case 1.4301									1.4404 (316L)
Measuring system	Bimetal coil									
Temperature sensor	1.4571 Sensor types B1, B3, B4, B4.1, B5, B6 Sensor diameter: 6 or 8 mm Sensor length: from Lmin / L1min up to 400 mm Please note the minimum sensor length depending on the active length (La) and sensor type									
Dial	Aluminium white, scale and lettering black									Special scale
Window	Instrument glass									Safety glass
Pointer	Adjustment pointer, Aluminium black									
Display correction (-/+4%)	by screw from the outside, centric back			by adjustment pointer			by screw from the outside			
Protection	IP65 acc. to DIN EN 60 529 / IEC 529									
Temperatures	Storage: -40°C up to +70°C Ambient: -40°C up to +60°C									Special equipment for environments from -60°C
Mounting	Rear fastening edge (option)			without			without			

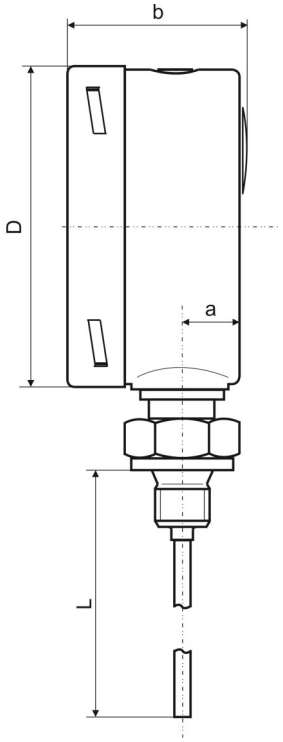
Dimensional drawings Dimensions in mm

DRUCK & TEMPERATUR

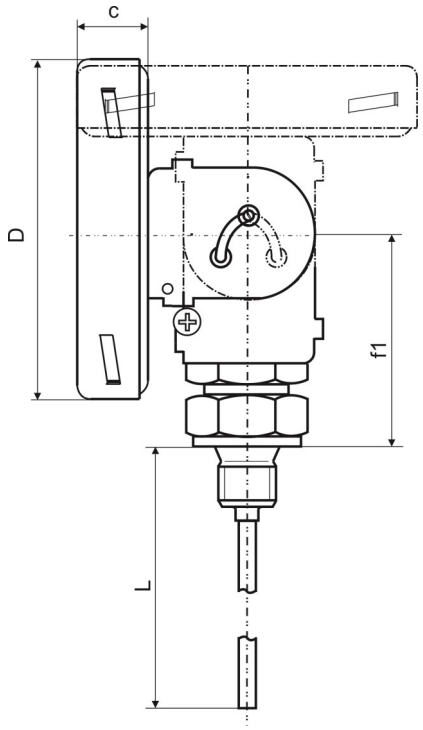
Type B11



Type B12



Type B13



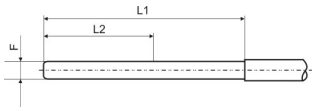
Type	NS	D	b1	h[1)]	b	a	c	f1[2)]
B11	63	64	26	19	-	-	-	-
	100	101	28	19	-	-	-	-
	160	161	27	19	-	-	-	-
B12	63	64	-	-	47,5	12	-	-
	100	101	-	-	55	15	-	-
	160	161	-	-	55	15	-	-
B13	63	64	-	-	-	-	26	60
	100	101	-	-	-	-	28	60
	160	161	-	-	-	-	27	60

1) and 2) Different dimensions for other sensors and for neck tube insert, please inquire if required

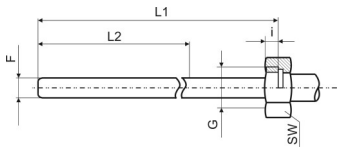
Stem types Dimensions in mm

DRUCK & TEMPERATUR

Type	Process connection	Form acc. DIN 13190	Thread - Dimensions	Suitable thermowell models
B1	Without screw fitting, plain stem	Form 1		



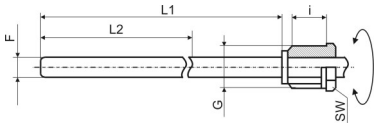
Type	Process connection	Form acc. DIN 13190	Thread - Dimensions	Suitable thermowell models
B3	Union nut	Form 5		



G	SW	i
G1/2	27	10
G3/4	32	12
M20 x1,5	27	10
M24 x1,5	32	12
M27 x 2	32	12

Form 4.1
Form 4.1F
Form 8
Form 9

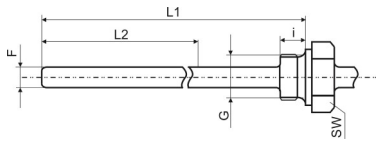
Type	Process connection	Form acc. DIN 13190	Thread - Dimensions	Suitable thermowell models
B4	Male thread turnable	Form 4		



G	SW	i
G1/2B	22	20
G3/4B	27	23
M18x1,5	22	14
M20x1,5	22	20

Form 4
Form 4F
Form 5
Form 6 und 7

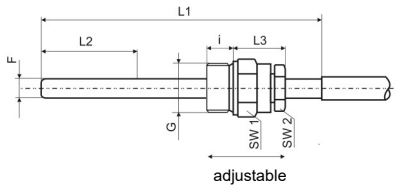
Type	Process connection	Form acc. DIN 13190	Thread - Dimensions	Suitable thermowell models
B4.1	Male thread riged	Form 6 Form 7		



G	SW	i
G1/2B	27	14
G3/4B	32	16
1/2“NPT	27	19
3/4“NPT	27	19
M18x1,5	24	14
M20x1,5	27	14

Form 4
Form 4F
Form 5
Form 6 und 7

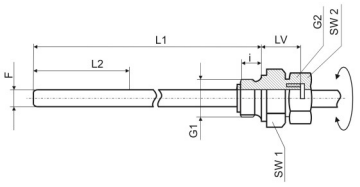
Type	Process connection	Form acc. DIN 13190	Thread - Dimensions	Suitable thermowell models
B5	Male thread Compression fitting	Form 2 Form 3		



G	SW1	SW2	i
G1/2B	27	22	14
G3/4B	32	22	16
1/2“NPT	27	22	19
3/4“NPT	27	22	19
M20x1,5	27	22	14

Form 4
Form 4F
Form 5
Form 6 und 7

Type	Process connection	Form acc. DIN 13190	Thread - Dimensions	Suitable thermowell models
B6	Male thread turnable / double male adapter	- Lv = 28 mm		



G	G2	SW1	SW2	a
G1/2B	G1/2B	27	27	14
G3/4B	G1/2B	32	27	16
1/2“NPT	G1/2B	27	27	19
3/4“NPT	G1/2B	27	27	19
M20x1,5	M20x1,5	27	27	14
M24x1,5	M20x1,5	32	27	14
M27x1,5	M20x1,5	32	27	16

Form 4
Form 4F
Form 5
Form 6 und 7

Minimum stem length and active length (mm)

			Sensor-Ø dF				
			6			8	
			Temperature difference ΔT[1)]				
Sensor	**Length**	**Thread**	**≥ 100 K**	**= 80 K**	**= 60 K**	**≥ 80 K**	**= 60 K**
all types	La	all standard thread	40	60	70	40	60
B1 / B4	Lmin		45	65	75	45	65
B3			52	72	82	52	72
B4.1			60	80	90	60	80
B5			95	115	125	95	115
B6	L1min		60	80	90	60	80
other			on request				

The **minimum length Lmin** / **L1min** is the smallest realizable sensor length.

The **active sensor length La** is the temperature-sensitive part of the probe.

Display ranges / measuring ranges, scale divisions, error limits

Display ranges	Measuring ranges	Scale divisions in °C	Error limits acc. Cl. 1 +/-°C
0 - 60°C	10-50°C	1	1
0 - 80°C	10-70°C	1	1
0 - 100°C	10-90°C	1	1
0 - 120°C	10-110°C	2	2
0 - 160°C	20-140°C	2	2
0 - 200°C	20-180°C	2	2
0 - 250°C	30-220°C	5	2,5
0 - 300°C	30-270°C	5	5
0 - 400°C	50-350°C	10	5
0 - 500°C	50-450°C	10	5
0 - 600°C	100-500°C	10	10
-50 / +50°C	-40/+40°C	1	1
-40 / +40°C	-30/+30°C	1	1
-40 / +60°C	-30/+50°C	1	1
-30 / +50°C	-20/+40°C	1	1
-30 / +70°C	-20/+60°C	1	1
-20 / +40°C	-10/+30°C	1	1
-20 / +60°C	-10/+50°C	1	1
-20 / +80°C	-10/+70°C	1	1
50 / 300°C	80-270°C	5	2,5

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