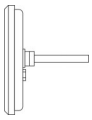
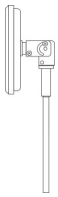
BIMETAL-POINTER-THERMOMETER
with crimped-on ring

Chemical version acc. to EN 13 190
IP65
external zero point adjustment

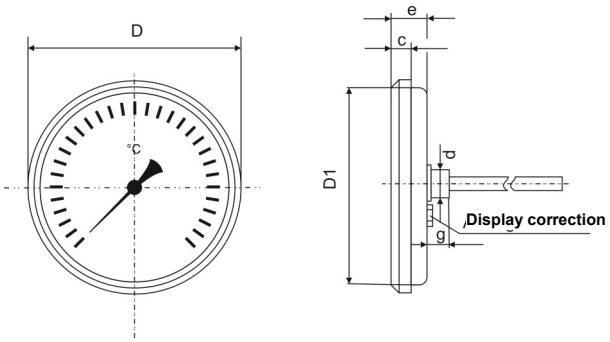
Areas of application:
Chemical and petrochemical industries
Food industry
Plastic and paper industry
Machine and apparatus construction

Type	B14			B15			B16			Options
Nominal size	63	100	160	63	100	160	63	100	160	
Form										3“ (80 mm) 5“ (125 mm)
Connection position	back			bottom			angled			B14/B15 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	1.4301 with crimped-on ring									1.4404 (316L)
Measuring system	Bimetal coil									
Option: Case filling	Measuring ranges -20°C up to +100°C: glycerine Measuring ranges -40°C and over +100°C up to +250°C: silicone oil									
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 sclae
Window	Instrument glass									Safety glass
Pointer	Adjustment pointer, Aluminium black									
Display correction	(-/+4%) - by screw from the outside, centric back									
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 drawing Dimensions in mm

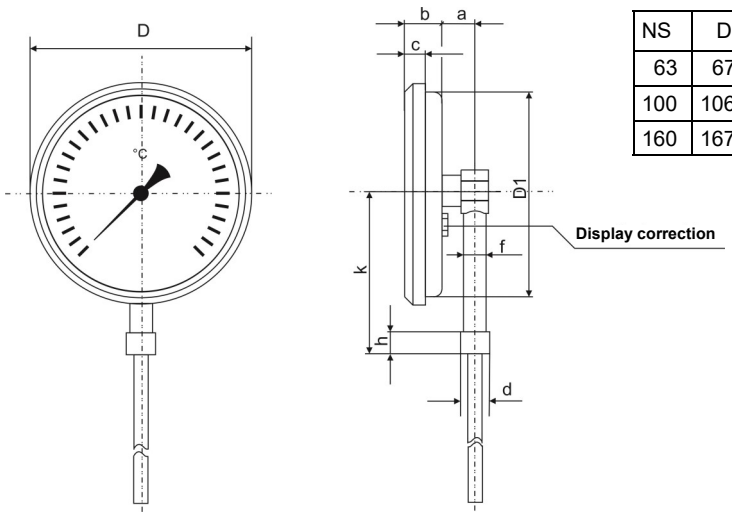
DRUCK & TEMPERATUR

Type 14



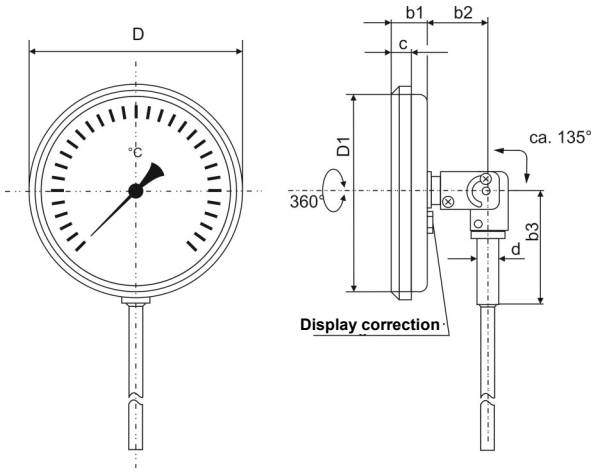
NS	D	D1	c	d	e	g	Weight unfilled	Weight filled
63	67	62	8	14	17	12,5	0,18 kg	0,20 kg
100	106	98	10	14	18	12,5	0,29 kg	0,37 kg
160	167	159	11	14	21	12,5	0,46 kg	0,66 kg

Type 15



NS	D	D1	a	b	c	d	f	h	k	Weight unfilled	Weight filled
63	67	62	18,5	17	8	14	12	10,5	55	0,18 kg	0,20 kg
100	106	98	18,5	18	10	14	12	10,5	75	0,29 kg	0,37 kg
160	167	159	-	-	11	14	12	-	-	0,46 kg	0,66 kg

Type 16



NS	D	D1	b1	b2	c	d	Weight unfilled	Weight filled
63	67	62	17	37	8	14	0,28 kg	0,31 kg
100	106	98	18	37	10	14	0,39 kg	0,46 kg
160	167	159	21	37	11	14	0,64 kg	0,84 kg

Please note! Different dimensions for other sensors and for neck tube insert, please inquire if required

Stem types Dimensions in mm

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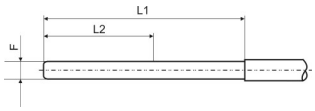
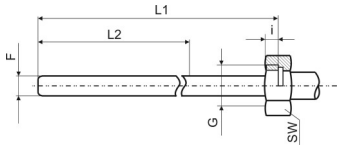
Type	Process connection	Form acc. DIN 13190	Thread - Dimensions	Suitable thermowell models
G1	Without screw fitting, plain stem	Form 1		



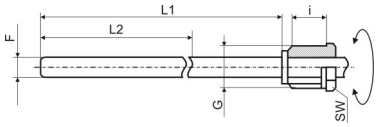
G3 Union nut — Form 5



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

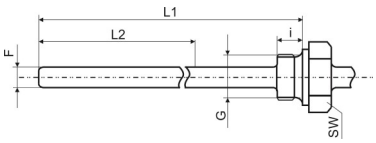
G4 Male thread turnable — Form 4



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

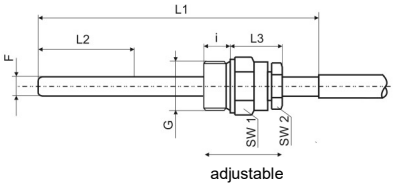
G4.1 Male thread riged — Form 6, Form 7



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

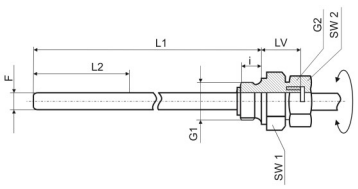
G5 Male thread — Form 2
Compression fitting — Form 3



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

G6 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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