

STIKO

TEMPERATURE
PRESSURE
CALIBRATION



Documentation 2025

SUBSEA PRESSURE GAUGES

STIKO

GENERAL INFORMATION

- This documentation is for **sub sea pressure gauges** manufactured by STIKO, "Made in Holland".

CERTIFICATION

- Certificates of Conformity to the company's published specifications are available on request for all STIKO manufactured products according to EN 10204 (2.2).
- Certificates of Calibration for all STIKO manufactured products are also available. These certificates indicate deviations from standards traceable to R V A - D K D (Dutch - German National Standards).

The results are recorded in a certificate which include calibration date, instrument serial number, type number and the R V A or D K D standard used.

- Material Certificates according to EN 10204 (3.1) for all STIKO manufactured products are also available in the form of certificate copies that indicate specifications of the materials used.

WARRANTY AND REPAIR SERVICE

- A warranty period of 24 months is applicable for all instruments.
- An efficient repair and spare part service is available at competitive rates for STIKO products as well as products of other manufacturers.

Instruments for repair should be sent carriage paid and labelled with the sender's name and address, together with a brief description of the work required.

Please note that instruments need to be cleaned before they are returned.

If the instrument is leaking, please seal it in a plastic bag.

If you need a repair quotation, please indicate this on your document.

Repair quotations cannot be made before inspection of the products.

Lead-times upon request.



STIKO has more than 60 years of experience in manufacturing state-of-the-art mechanical instruments in the area of **TEMPERATURE, PRESSURE and PRESSURE CALIBRATION**.

STIKO is ISO-9001-2015 approved and we develop and manufacture all our instruments according to PED (2014/68/EU).

STIKO - Industrieweg 5, 9301 LM Roden, The Netherlands.

STIKO Subsea Pressure Gauges

Subsea Pressure Gauges

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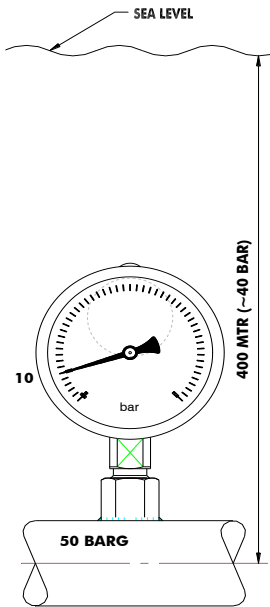
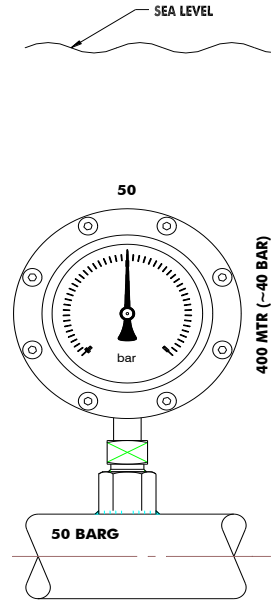
Pressure ranges, options, certificates

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Besides subsea pressure gauges, STIKO manufactures many types of pressure gauges also "made in Holland". Our product categories include high pressure gauges, tank-level gauges, test gauges, differential gauges, contact gauges, gauges with chemical seals, but also chart recorders. Where needed, most products can be tailor-made to customer specifications.

SUBSEA PRESSURE GAUGES

Selection guide

		SUBSEA PRESSURE GAUGE TYPE								
		With compensation diaphragm			Bar-stock design					
model		PBX-SS-CD			PBX-SS			PBX-SS-ED	PBX-SS-UD	
dial size		63 mm	100 mm	160 mm	63 mm	100 mm	160 mm	100 mm	100 mm	
case diameter		63 mm	100 mm	160 mm	80 mm	124 mm	170 mm	124 mm	140 mm	
case filling		99,5% glycerin-filled			dry case, filled case is optional *					
IP rating		IP68								
operating principle										
gauge reading		= P _{process} - P _{seawater column}			= P _{process}					
case		bayonet lock			solid drilled, bar-stock					
max. depth		6000 m	3000 m	3000 m	1200 m	900 m	450 m	4000 m	6000 m	
optional depth		-	-	-	2000 m	-	-	-	-	
case material		AISI316	AISI316	AISI316	AISI316			AISI316	AISI316	
wetted parts		AISI316L/1.4436 fully welded system	AISI316L/1.4436 fully welded system	AISI316L/1.4436 fully welded system	AISI316L/1.4436 fully welded system			AISI316L/1.4436 fully welded system	AISI316L/1.4436 fully welded system	
catalogue page		5	6	7	8			9	10	
range (span)		min.	0-1 bar	0-1 bar	0-1 bar	0-6 bar *	0-6 bar *	0-6 bar *	0-6 bar*	0-6 bar*
		max.	0-1000 bar	0-1600 bar **	0-1600 bar **	0-1000 bar	0-1600 bar	0-1600 bar	0-1600 bar	0-1600 bar

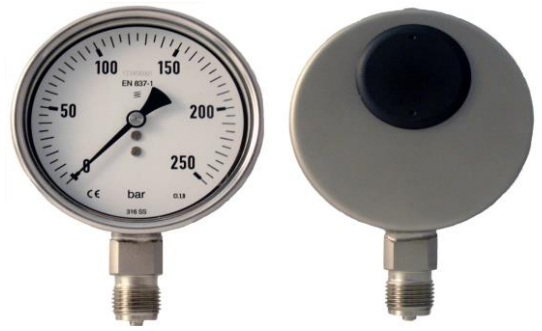
* when liquid filled, the minimum range is 0-10 bar

** higher ranges possible, prices and conditions on enquiry (no standard)

SUBSEA PRESSURE GAUGES, TYPE PBX-SS-CD

CASE $\varnothing 63\text{mm}$ - max. 6000 meters

CASE	: $\varnothing 63\text{ mm}$ - bayonet lock, AISI316L/1.4404, 99,5 % glycerin-filled - IP 68
WETTED PARTS	: bourdon tube + connection AISI316L/1.4404
WINDOW	: armoured glass 4 mm
DIAL	: aluminium, black figures on white
POINTER	: aluminium, black
CONNECTION	: 1/4" BSP or 1/4" NPT
RANGE	: 0-1 up to 0-1000 bar, acc. to EN 837-1 price valid up to 0-60 bar (for higher ranges see page 11)
ACCURACY	: $\pm 1.0\%$ F.S. / class 1
MOVEMENT	: AISI304/1.4301
APPLICATION	: for operating at great depths of sea water
OPTIONS	: see page 12

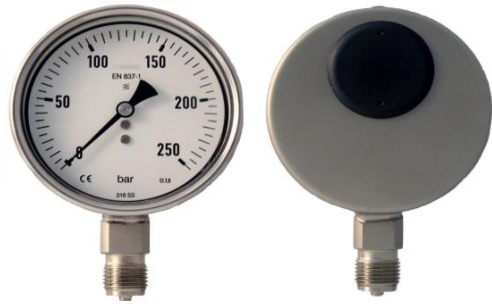


TYPE	MODEL CD "compensation diaphragm"	DIMENSIONS		UNIT PRICE
A PBX-SS-CD063LA		PBX-SS-CD063LA		
		DIM	mm	
		A	64	
		B	47	
		C	22,5	
		E	53,5	
		T	13	
		HEX	14	
D PBX-SS-CD063LD		PBX-SS-CD063LD		
		A	64	
		B	42	
		C	22,5	
		D	85	
		E	53,5	
		H	4	
		P	75	
		T	13	
		HEX	14	
	Back flange AND back connection not possible for PBX-SS-CD with ø63mm case			

SUBSEA PRESSURE GAUGES, TYPE PBX-SS-CD

CASE ø100mm - max. 3000 meters

CASE	: ø 100 mm - bayonet lock, AISI316L/1.4404, 99,5 % glycerin-filled - IP68
WETTED PARTS	: bourdon tube + connection AISI316L/1.4404
WINDOW	: armoured glass 4 mm
DIAL	: aluminium, black figures on white
POINTER	: aluminium, black
CONNECTION	: 1/2" BSP or 1/2" NPT
RANGE	: 0-1 up to 0-1600 bar *, acc. to EN 837-1 price valid up to 0-60 bar (for higher ranges see page 11)
ACCURACY	: ± 1.0% F.S. / class 1
MOVEMENT	: AISI304/1.4301
APPLICATION	: for operating at great depths of sea water
OPTIONS	: see page 12



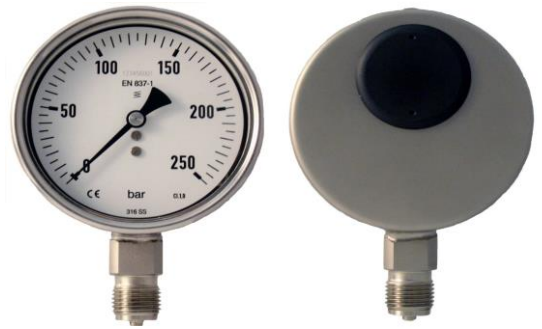
TYPE	MODEL CD "compensation diaphragm"	DIMENSIONS	UNIT PRICE
A PBX-SS-CD100LA		PBX-SS-CD100LA	
		DIM	mm
		A	101,1
		B	51
		C	19,5
		E	88
		T	20
B PBX-SS-CD100LB		PBX-SS-CD100LB	
		A	101,1
		B	54
		D	133
		E	88
		H	4,5
		J	22
C PBX-SS-CD100LC		PBX-SS-CD100LC	
		A	101,1
		B	51
		C	33
		E	92
		T	20
		HEX	22
D PBX-SS-CD100LD		PBX-SS-CD100LD	
		A	101,1
		B	38
		C	19,5
		D	132
		E	88
		H	4,5
J PBX-SS-CD100LJ		PBX-SS-CD100LJ	
		A	101,1
		B	38
		C	33
		D	132
		E	79
		H	4,5
H PBX-SS-CD100LH		PBX-SS-CD100LH	
		A	101,1
		B	42
		C	33
		D	112
		E	83
		T	20

* 0-2000 bar or 0-2500 bar also possible

SUBSEA PRESSURE GAUGES, TYPE PBX-SS-CD

CASE $\varnothing 160\text{mm}$ - max. 3000 meters

CASE	: $\varnothing 160\text{ mm}$ - bayonet lock, AISI316L/1.4404, 99,5 % glycerin-filled - IP68
WETTED PARTS	: bourdon tube + connection AISI316L/1.4404
WINDOW	: armoured glass 4 mm
DIAL	: aluminium, black figures on white
POINTER	: aluminium, black
CONNECTION	: 1/2" BSP or 1/2" NPT
RANGE	: 0-1 up to 0-1600 bar *, acc. to EN 837-1 price valid up to 0-60 bar (for higher ranges see page 11)
ACCURACY	: $\pm 1.0\%$ F.S. / class 1
MOVEMENT	: AISI304/1.4301
APPLICATION	: for operating at great depths of sea water
OPTIONS	: see page 12



TYPE	MODEL CD "compensation diaphragm"	DIMENSIONS	UNIT PRICE
A PBX-SS-CD160LA		PBX-SS-CD160LA	
		DIM	mm
		A	161,5
		B	49
		C	13
		E	118
		T	20
		HEX	22
B PBX-SS-CD160LB		PBX-SS-CD160LB	
		A	161,5
		B	55
		D	196
		E	118
		H	6
		J	19
		L	196
		P	178
		T	20
		HEX	22
C PBX-SS-CD160LC		PBX-SS-CD160LC	
		A	161,5
		B	49
		C	33
		E	90
		T	20
		HEX	22
D PBX-SS-CD160LD		PBX-SS-CD160LD	
		A	161,5
		B	36
		C	13
		D	196
		E	118
		H	6
		P	178
		T	20
		HEX	22
J PBX-SS-CD160LJ		PBX-SS-CD160LJ	
		A	161,5
		B	36
		C	33
		D	196
		E	74
		H	6
		P	178
		T	20
		HEX	22

* 0-2000 bar or 0-2500 bar also possible

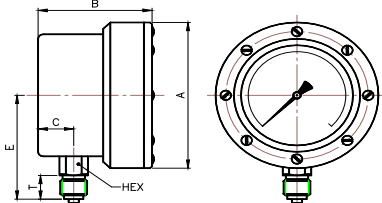
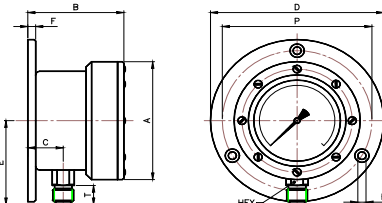
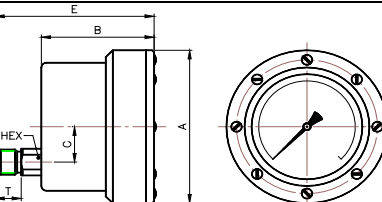
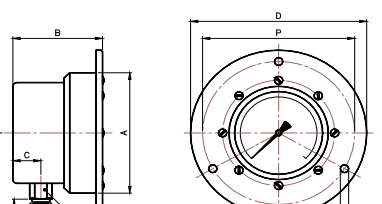
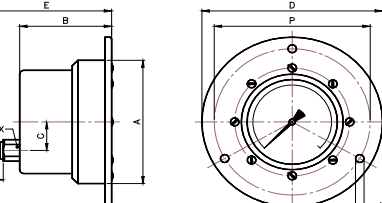
SUBSEA PRESSURE GAUGES, TYPE PBX-SS

TYPE PBX-SS, with pressure-tight solid bar stock case

STANDARD MODEL

CASE	: screwed bezel, AISI316/1.4401 pressure tight for depths down to; see below - IP68	RANGE	: 0-1 up to 0-1600 bar (1000 bar for ø63mm), acc. to EN 837-1 price valid up to 0-60 bar (for higher ranges see page 11)
WETTED PARTS	: bourdon tube + connection AISI316L/1.4404	ACCURACY	: case Ø 63 : ± 1.6% F.S. / class 1.6 case Ø100 and Ø160 : ± 1.0% F.S. / class 1
WINDOW	: armoured glass 19mm thick (Ø63 15mm)	MOVEMENT	: AISI304/1.4301
DIAL	: aluminium, black figures on white	APPLICATION	: for operating at great depths of sea water and in hyperbaric conditions
POINTER	: aluminium, black	OPTIONS	: see page 12
CONNECTION	: Ø63mm: 1/4"BSP or 1/4"NPT Ø100 and Ø160mm : 1/2 " BSP or 1/2 " NPT		

Note: these gauges are sold as a ø63mm, ø100mm or ø160mm subsea gauge. However, due to the bar stock construction, the case is larger and the dial is smaller than the indicated diameters.

TYPE	MODEL	DRAWING	UNIT PRICE																																																	
			CASE DIAMETER (Ø in mm)																																																	
			ø 63 (up to 1200m)	ø 100 (up to 900m)	ø 160 (up to 450m)																																															
A		<table><tr><th rowspan="2">DIM.</th><th colspan="3">CASE DIAMETER</th></tr><tr><th>63</th><th>100</th><th>160</th></tr><tr><td>A</td><td>80</td><td>124</td><td>170</td></tr><tr><td>B</td><td>56</td><td>71</td><td>71</td></tr><tr><td>C</td><td>17,5</td><td>20</td><td>21</td></tr><tr><td>E</td><td>57</td><td>97</td><td>104</td></tr><tr><td>T</td><td>13</td><td>20</td><td>20</td></tr><tr><td>HEX</td><td>14</td><td>22</td><td>22</td></tr></table>	DIM.	CASE DIAMETER			63	100	160	A	80	124	170	B	56	71	71	C	17,5	20	21	E	57	97	104	T	13	20	20	HEX	14	22	22	PBX-SS063XA	PBX-SS100XA	PBX-SS160XA																
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HEX	14	22	22																																																	
OPTIONS			EXTRA COSTS																																																	
max. 2000m	WITH SPECIAL 25mm THICK GLASS		PBX-SS063xx	PBX-SS100xx	PBX-SS160xx																																															
				N.A.	N.A.																																															
Case filling (Lx)	GLYCERIN-FILLED CASE*		PBX-SS063Lx	PBX-SS100Lx	PBX-SS160Lx																																															
	SILICONE OIL FILLED CASE*																																																			
* Case filling available starting at 0-10 bar range																																																				

SUBSEA PRESSURE GAUGES, EXTRA DEEP

TYPE PBX-SS-ED, with pressure tight solid bar stock case: max 4000m

STANDARD MODEL

CASE	: ø 124 mm - screwed bezel, AISI316/1.4401, pressure tight for depths down to 4000 metres - IP68
WETTED PARTS	: bourdon tube + connection AISI316L/1.4404
WINDOW	: armoured glass 35 mm
DIAL	: aluminium, black figures on white
POINTER	: aluminium, black
CONNECTION	: 1/2 " BSP or 1/2 " NPT
RANGE	: 0-1 up to 0-1600 bar, acc. to EN 837-1 price valid up to 0-60 bar (for higher ranges see page 11)
ACCURACY	: ± 1.0% F.S. / class 1
MOVEMENT	: AISI304/1.4301
APPLICATION	: for operating at great depths of sea water
OPTIONS	: see page 12

Note: these gauges are sold as a ø100mm subsea gauge. However, due to the bar stock construction, the case is larger than ø100mm and the dial is smaller than ø100mm



TYPE	MODEL ED "EXTRA DEEP"	DIMENSIONS	UNIT PRICE
A PBX-SS-ED100XA		PBX-SS-ED100XA	
		A	124
		B	91
		C	22
		E	109
		T	20
		HEX	22
C PBX-SS-ED100XC		PBX-SS-ED100XC	
		A	124
		B	91
		C	30
		E	132
		T	20
		HEX	22
D PBX-SS-ED100XD		PBX-SS-ED100XD	
		A	124
		B	91
		C	22
		D	175
		E	132
		H	7
		F	8
		P	150
		T	20
		HEX	22
J PBX-SS-ED100XJ		PBX-SS-ED100XJ	
		A	124
		B	91
		C	30
		D	175
		E	132
		F	8
		H	7
		P	150
		T	20
		HEX	22
Case filling (Lx)	GLYCERIN-FILLED CASE*		
	SILICONE OIL FILLED CASE*		
	* Case filling available starting at 0-10 bar range		

SUBSEA PRESSURE GAUGES, ULTRA DEEP

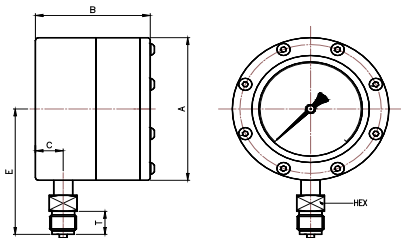
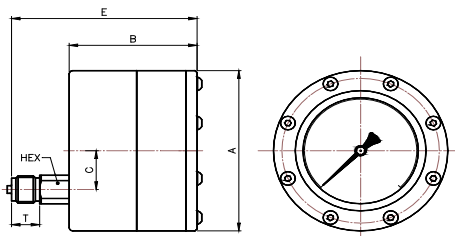
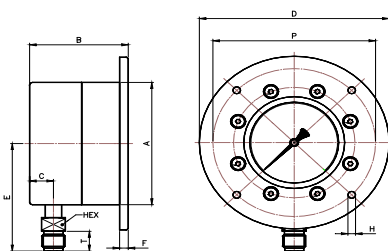
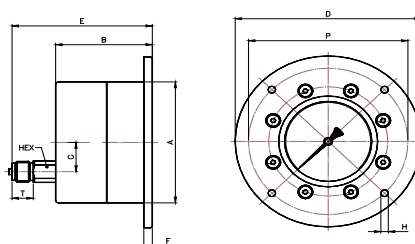
TYPE PBX-SS-UD, with pressure tight solid bar stock case: max 6000m

STANDARD MODEL

CASE	: ø 140 mm - screwed bezel, AISI316/1.4401, pressure tight for depths down to 6000 metres - IP68
WETTED PARTS	: bourdon tube + connection AISI316L/1.4404
WINDOW	: armoured glass 40 mm
DIAL	: aluminium, black figures on white
POINTER	: aluminium, black
CONNECTION	: 1/2 " BSP or 1/2 " NPT
RANGE	: 0-1 up to 0-1600 bar, acc. to EN 837-1 price valid up to 0-60 bar (for higher ranges see page 11)
ACCURACY	: ± 1.0% F.S. / class 1
MOVEMENT	: AISI304/1.4301
APPLICATION	: for operating at great depths of sea water
OPTIONS	: see page 12

Note: these gauges are sold as a ø100mm subsea gauge. However, due to the bar stock construction, the case is larger than ø100mm and the dial is smaller than ø100mm



TYPE	MODEL UD "ULTRA DEEP"	DIMENSIONS	UNIT PRICE																				
A PBX-SS-UD100XA																							
		<table><tr><td colspan="2">PBX-SS-UD100XA</td></tr><tr><td>A</td><td>140</td></tr><tr><td>B</td><td>88</td></tr><tr><td>C</td><td>22</td></tr><tr><td>E</td><td>122</td></tr><tr><td>T</td><td>24,5</td></tr><tr><td>HEX</td><td>22</td></tr></table>	PBX-SS-UD100XA		A	140	B	88	C	22	E	122	T	24,5	HEX	22							
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J PBX-SS-UD100XJ																							
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* Case filling available starting at 0-10 bar range																							

PRESSURE RANGES FOR SUBSEA GAUGES

PRESSURE RANGES		EXTRA COSTS				
in bar	SCALE DIVISION	CASE DIMENSIONS (mm)				
	cl. 1.0% / 1.6%	Ø 63	Ø 100	Ø 100 (ED)	Ø 100 (UD)	Ø 160
-1 ...0	0.02	•				
-1 ...0.6	0.05	•				
-1 ...1.5	0.05	•				
-1 ...3	0.1	•				
-1 ...5	0.1	•				
-1 ...9	0.2	•				
-1 ...15	0.5	•				
-1 ...24	0.5	•				
0 ...0.6	0.01	•				
0 ...1	0.02	•				
0 ...1.6	0.05	•				
0 ...2.5	0.05	•				
0 ...4	0.1	•				
0 ...6	0.1	•				
0 ...10	0.2	•				
0 ...16	0.5	•				
0 ...25	0.5	•				
0 ...40	1	•				
0 ...60	1	•				
0 ...100	2					
0 ...160	5					
0 ...250	5					
0 ...400	10					
0 ...600	10					
0 ...1000	20					
0 ...1600	50	×				
0...2000 / 0...2500 *	50	×		×	×	×
NON STANDARD RANGES						
e.g. 0-7 bar or 0-110 psi						
DOUBLE SCALES						
e.g. bar/psi, bar/kPa, etc.		•				
×	NOT AVAILABLE					
•	STANDARD					
*	ONLY AVAILABLE FOR PBX-SS-CD MODEL IN ø100MM or ø160MM					

OPTIONS FOR SUBSEA PRESSURE GAUGES

PBX-SS	CASE SIZE	CONNECTIONS						
		1/8"BSP/NPT max. 400 bar	1/4"BSP/NPT max. 1000 bar	1/2"BSP, 1/2"NPT max. 1000 bar	3/8"BSP/NPT max. 1000 bar	M20x1.5 max. 1600 bar	M16x1.5 H.P. female	9/16"UNFx18 H.P. female
	063		•					
	100			•				
	160			•				

PBX-SS	CASE SIZE	CONNECTION	DIAL / MARKING			OTHER	
		At 3 / 9 / 12 HRS	WHITE DIAL + BLACK POINTER AND MARKING	BLACK DIAL + WHITE POINTER AND MARKING	BLACK DIAL + YELLOW POINTER AND MARKING	MONEL WETTED PARTS (only for CD model)	PULSATION DAMPER AISI316 1.4401
	063		•				
	100		•				
	160		•				

×

NOT AVAILABLE

•

STANDARD

Subsea gauges can be manufactured with chemical seals (e.g. with wetted parts in exotic materials).
Contact us for the possibilities.