

GENERAL INFORMATION

- This specification document is for **pressure gauges** manufactured by:

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

- STIKO® is a manufacturer of mechanical instruments in the area of temperature, pressure and calibration. We offer thermometers, pressure gauges, pressure and/or temperature recorders, as well as calibration equipment. We develop and manufacture all our instruments to ISO-9001-2008 standards.
- In order to construct your instrument please proceed as follows:

EXAMPLE 1

		PAGE:
1 Instrument type	PBX100LA	3
2 Pressure range	0 + 250 bar	55
3 Electrical device	I-1-Hz contact	61
4 Any options	Blow-out plug	57-58

EXAMPLE 2

		PAGE:
1 Instrument type	PFS100XA-04	31
2 Pressure range	0 + 60 bar	55
3 Capillary tube	1.500 mm, AISI321/1.4541	31
4 Electrical device	M-1-Hz contact	60
5 Any options	Blow-out disc	57-58

- Abbreviations used in this document: O.D. = ON DEMAND; N.A. = NOT AVAILABLE
- Dimensions used in this document are in: millimeters (mm).
- Your order will be confirmed by e-mail.
- Other variations which are not mentioned in this document are on demand (if possible).

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. These certificates indicate specifications of the materials used.

WARRANTY AND REPAIR SERVICE

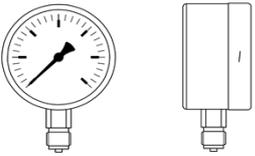
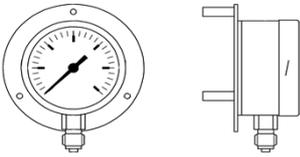
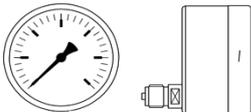
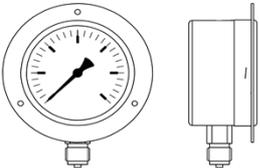
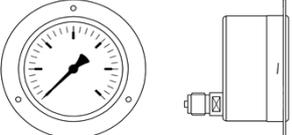
- An efficient repair and sparepart service is available at competitive rates for STIKO® products and products of other manufacturers. Instruments for repair should be sent carriage paid and labelled with the sender's name and address, together with a brief description of the work required. Within two days after receiving the instruments, you will get a full detailed offer for the repair job.
- **A warranty period of 24 months is applicable for all instruments sold as of January 1st, 2018**

"ALL-STAINLESS" SOLID-FRONT PRESSURE GAUGES, TYPE PBX-SF

TYPE PBX-SF, full safety pattern according to EN 837-1

STANDARD MODEL

CASE	: bayonet lock, AISI304/1.4301, IP-65 solid front & blow-out back acc. to DIN 16001	RANGE	: 0-2000 - 0-4000 bar acc. to DIN16001 (see page 55) for higher ranges : see page 55
WETTED PARTS	: bourdon tube + connection AISI316Ti/1.4571	ACCURACY	: case Ø100 and Ø160 : ± 1.0% F.S./class 1
WINDOW	: safety glass	MOVEMENT	: AISI304/1.4301
DIAL	: aluminium, black figures on white	APPLICATION	: general and heavy industry
POINTER	: aluminium, black	OPTIONS	: see page 57-58
CONNECTION	Ø100 and Ø160mm : ½"BSP or ½"NPT		

TYPE	MODEL	CASE DIAMETER (Ø in mm)		
			100	160
A			PBX-SF100XA	PBX-SF160XA
B			PBX-SF100XB	PBX-SF160XB
C			PBX-SF100XC	N.A.
D			PBX-SF100XD	PBX-SF160XD
J			PBX-SF100XJ	N.A.
OPTIONS				
Lx	LIQUID FILLED CASE: GLYCERINE (in combination with electrical device: OIL see page 64)		PBX-SF100Lx	PBX-SF160Lx
"Hz" CONTACT DEVICE	EXCLUDING "Hz" CONTACT (see page 59-63)			
He	Helium leaktest (wetted parts)			
O2 *	for Oxygen use (max. 400 bar)			

* liquid filled on demand

"ALL-STAINLESS" SOLID-FRONT PRESSURE GAUGES, TYPE PBX-SF-HP

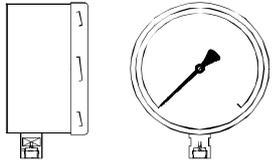
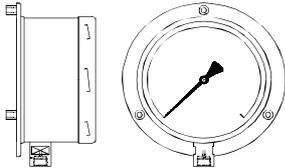
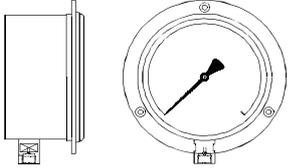
TYPE PBX-SF-HP, full safety pattern

STANDARD MODEL

CASE	: bayonet lock, AISI304/1.4301, IP-65 solid front & blow-out back
WETTED PARTS	: spiral wound tube, HP160
WINDOW	: safety glass
DIAL	: aluminium, black figures on white
POINTER	: aluminium, black
CONNECTION	: 9/16" UNF x18 H.P. female (1/4"HP Autoclave) or M16 x 1,5 HP female, AISI316Ti, 1.4571
RANGE	: 0 - 4000 bar upto 0 - 6000 bar, according to DIN 16001 for higher ranges (max. 7000 bar): see below
ACCURACY	: ± 1.0% F.S./class 1



e.g. PBX-SF-HP160XA

TYPE	MODEL	CASE DIAMETER (Ø in mm)
		160
A		PBX-SF-HP160XA
B		PBX-SF-HP160XB
D		PBX-SF-HP160XD
OPTIONS		EXTRA COSTS
Lx	LIQUID FILLED CASE: ONDINA	PBX-SF-HP160Lx
Range	0 - 7000 bar	

STIKO

DIN 16001 Pressure Gauges

from 2000 bar / 30000 psi
to 7000 bar / 100000 psi



Example: PBX-SF-HP160XA

APPLICATION
Solid front safety gauges
from Stiko are now
designed in accordance
with DIN 16001



SPECIFICATIONS

Design

DIN 16001, (with serial number),
S3: EN837

Nominal size in mm

Ø100, Ø160, AISI 304
AISI 316 on request

Accuracy class

+/-1.0% Full scale or better

Scale ranges

See back side table, others on request

Ingress protection

IP65 per IEC/EN 60529

Pressure limitation

Steady: 3/4 x full scale value
indicated with ◀
Fluctuating: 2/3 x full scale value
Short time: Full scale value

Window

Laminated Safety Glass (laser marked SG)

Movement

Stainless steel AISI-304

Dial

White face with black printing

SAFE
DURABLE
PORTABLE

RELIABLE
COMPACT
RUGGED

SAFETY FEATURES

Meets standard-defined criteria of the category "S3: EN837" (safety pressure gauges with solid baffle wall and safety glass).

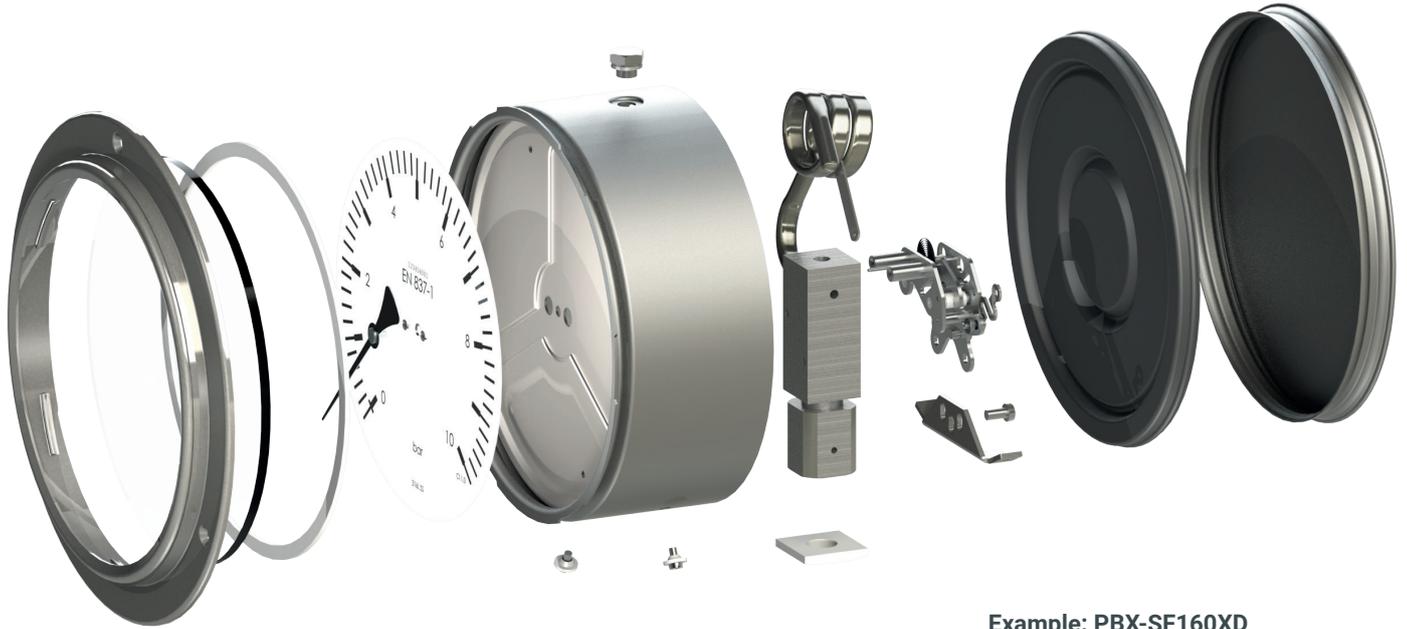
OPTIONAL

- > Panel mounting flange, stainless steel, wall mount
- > Filled case
- > Double scales
- > Other connections on request

STIKO

DIN 16001 Pressure Gauges

from 2000 bar / 30000 psi
to 7000 bar / 100000 psi



Example: PBX-SF160XD

Model	Size	Pressure Range							Bourdon Tube	
		0-2000 [bar]	0-2500 [bar]	0-3000 [bar]	0-4000 [bar]	0-5000 [bar]	0-6000 [bar]	0-7000 [bar]	Ni Span C	Stainless Steel
PBX-SF	Ø100	●	●	●	●				●	
	Ø160	●	●	●					●	
PBX-HP	Ø100				●	●	●	●		●

Model	Size	Pressure Range							Bourdon Tube	
		0-30000 [psi]	0-36000 [psi]	0-40000 [psi]	0-60000 [psi]	0-70000 [psi]	0-80000 [psi]	0-100000 [psi]	Ni Span C	Stainless Steel

Note:

- Standard available ●
- Socket connection AISI 316L
- 1/2" BSP and M16x1.5 rate (2000-2500 bar) to DIN 16001
- 9/16" - 18 UNF
- Other connections on request

*A pleasure
to measure*

STANDARD PRESSURE RANGES FOR TYPES:

PBX-SF

PRESSURE RANGES		EXTRA COSTS										
SCALE DIVISION (in bar)		CASE DIMENSIONS (in mm)										
	cl. 1.0	Ø 100	Ø 160									
		0 ...2000 CE	50									
0 ...2500* CE	50											
0 ...3000* CE	50											
0 ...4000** CE	50		See p14									
0 ...5000***, 0 ... 6000*** and 0 ...7000*** - see page 14												
DOUBLE SCALES												
e.g. bar/psi, bar/kPa, etc.												
ACCURACY												
±1.0% F.S. (class 1.0)		•	•									
×	NOT AVAILABLE											
•	STANDARD											

MARKING FOR PRESSURE GAUGES

OPTIONS	EXTRA PRICE
TAG number on dial	
TAG number on AISI304/1.4301 TAG plate 55x25 mm	
Lettering on dial	
Red mark on dial	

CERTIFICATES FOR PRESSURE GAUGES

TYPE OF CERTIFICATE	NET PRICES		
Certificate of Conformity acc. to EN 10204 2.2.			
Material certificate wetted parts acc. to EN 10204 3.1			
ATEX certification, including ATEX on the dial; only possible with STIKO logo for gauges without contact INSTRUMENTS WITH ATEX CERTIFICATION SHALL ALSO HAVE SAFETY GLASS AND A BLOW - OUT	<i>PER ORDER</i>		
ATEX certification, including ATEX on the dial; only possible with STIKO logo for gauges with inductive contact INSTRUMENTS WITH ATEX CERTIFICATION SHALL ALSO HAVE SAFETY GLASS AND A BLOW - OUT	<i>PER INSTRUMENT</i>		
Pressure (Bar)		2500 -4000	>=4000
Calibration certificate pressure gauge	Certificate traceable to international standards		
Calibration certificate pressure gauge with transmitter (see page 64)		N.A.	N.A.

OPTIONS ON PRESSURE GAUGES

EXTRA COSTS						
TYPE	CASE DIMENSIONS (in mm)	CONNECTIONS			CASE & BEZEL	
		1/2" BSP max. 2500 bar***, 1/2" NPT max. 1000 bar	M16x1.5 H.P. female max. 7000 bar**	9/16" UNFx18 H.P. female max. 7000 bar**	AISI316L / 1.4404	BACK / FRONT FLANGE AISI316L/1.4404
		PBX	100	●		
	160	●			○	
PBX-SF	100			●	○	
PBX-SF(HP)	160			●		

×	NOT AVAILABLE	●	STANDARD	○	ON DEMAND
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* Not possible in combinations with contacts or transmitters

** Not available with pulsation damper

*** As per DIN16001

OPTIONS ON PRESSURE GAUGES

TYPE	CASE DIMENSIONS (in mm)	EXTRA COSTS													
		WINDOW MATERIAL			BLOW- OUT		POINTERS					MEASURING SYSTEM			
		PMMA - PLEXIGLASS	SECURIT	LAMINATED SAFETY GLASS	DISC	PLUG * (LIQUID FILLED)	ADJUSTABLE	INDEX POINTER ON GLASS	DRAG POINTER		DRAG POINTER in combination with HZ contact	OIL & GREASE FREE**	MONEL WETTED PARTS	PULSATION DAMPER AISI316 1.4401	OVERLOAD 2x F.S. other on demand
									Single	Double					
PBX															
	100				●	●									
	160				●	●									
PBX-SF															
	100	×	×	●	×	×				×					
	160	×	×	●	×	×				×					

× NOT AVAILABLE
 ● STANDARD
 ○ ON DEMAND
 * WITH COMPENSATING DIAPHRAGM
 ** Only PBX-SFxxxX is suitable for use on oxygen!!