

"ALL-STAINLESS" PRESSURE GAUGES WITH CAPILLARY, TYPE PFS

TYPE PFS, capillary tube with chemical seal

STANDARD MODEL

CASE : bayonet lock, AISI304/1.4301, IP-65
blow-out

WETTED PARTS : AISI316L/1.4435, others on demand

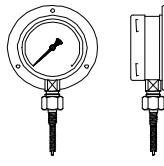
WINDOW : mineral glass 4 mm

DIAL : aluminium, black figures on white

POINTER : aluminium, black

MOVEMENT : stainless steel AISI304/1.4301

CAPILLARY : AISI304/1.4301 plain or armoured



PFSxxxXB-xx

RANGE : -1/0.6 upto 0-60 bar acc. to EN 837-1 (see page 55)
higher pressure ranges (max. 600 bar): see page 55

ACCURACY : case Ø 63 and Ø 80 mm: ±1.6% F.S./class 1.6
case Ø 100 and Ø 160 mm: ±1.0% F.S./class 1.0

Tprocess : -20/+120° Celcius (-40°C upto +400°C on demand)

OPTIONS : see page 57-58, electrical contact or transmitter 4-20 mA,
0-20mA, 0-10Vdc: see page 59-65

TYPE	SEAL MODEL	DN	MINIMUM PN	MAXIMUM PN	CASE DIAMETER xxx (Ø in mm)			
					063	080	100	160
PFSxxxXB-01		1" BSP TURNING NIPPLE	25 bar	600 bar				N.A.
PFSxxxXB-02		1/4" BSP COUPLING NUT	25 bar	600 bar				N.A.
PFSxxxXB-03		1/2" BSP/NPT MALE	1.6 bar	100 bar				
PFSxxxXB-04		1/2" BSP/NPT MALE	100 bar	250 bar				
PFSxxxXB-05		1/2" BSP/NPT FEMALE	1.6 bar	100 bar				
PFSxxxXB-06		1/2" BSP/NPT FEMALE	100 bar	250 bar				
PFSxxxXB-07*		1" ANSI or DN25	1.6 bar	150# or PN16				
PFSxxxXB-08*		1 1/2" ANSI or DN40	1.6 bar	150# or PN40				
PFSxxxXB-09*		2" ANSI or DN50	1.6 bar	150# or PN40				
PFSxxxXB-10*		1" ANSI or DN25	2.5 bar	150# or PN40				
PFSxxxXB-11*		1 1/2" ANSI or DN40	1.6 bar	150# or PN40				
PFSxxxXB-12*		2" ANSI or DN50	1.6 bar	150# or PN40				

CAPILLARY TUBE

			EXTRA COSTS			
PLAIN CAPILLARY		AISI321/1.4541 d= 3,2 mm	FIRST 1000 mm:		PER 1000 mm EXTRA:	
ARMOURED CAPILLARY		AISI304/1.4301 d= 7 mm	FIRST 1000 mm:		PER 1000 mm EXTRA :	
ARMOURED CAPILLARY		AISI316/1.4401 d= 7 mm	FIRST 1000 mm:		PER 1000 mm EXTRA:	

OPTIONS	MODEL	CASE DIAMETER xxx (Ø in mm)			
		063	080	100	160
PFSxxxXA-xx	WALL-MOUNTING BRACKET BOTTOM ENTRY				
PFSxxxXD-xx	FRONT FLANGE BOTTOM ENTRY	no extra costs	no extra costs	no extra costs	no extra costs
PFSxxxXH-xx	MOUNTING BEZEL AND U-CLAMP, OFF-CENTRE BACK ENTRY				
PFSxxxXJ-xx	FRONT FLANGE, OFF-CENTRE BACK ENTRY				
PFSxxxLx-xx	CASE GLYCERINE FILLED combination with electrical device: Ondina oil see page 64) (in				

* Other pressure ratings, flange sizes, materials and in-line connections on demand

STANDARD PRESSURE RANGES FOR TYPES:

PBX, PBX-TG, PBX-SF, PBB, PMX, PPB, PBS, PFS, PBQ, PFQ, PBR, PBT, RPX, RPP, PBX-SS, DIFFERENTIAL PRESSURE GAUGES

PRESSURE RANGES				EXTRA COSTS										
(in bar)*****	SCALE DIVISION			CASE DIMENSIONS (in mm)										
	cl. 1.0 cl. 1.6	OPTION		Ø 63	Ø 80	Ø 100	Ø 160	Ø 250	72x72	96x96	144x144	192x192 280x280 380x380 400x300 500x400	72x144 144x72	192x96 96x192
		cl. 0.6 cl. 0.5	only PBX-TG cl. 0.3 cl. 0.25											
-1 ...0	0.02	0.005	0.005											
-1 ...0.6	0.05	0.01	0.005											
-1 ...1.5	0.05	0.02	0.01											
-1 ...3	0.1	0.02	0.01											
-1 ...5	0.1	0.05	0.02											
-1 ...9	0.2	0.05	0.05											
-1 ...15	0.5	0.1	0.05											
-1 ...24	0.5	0.2	0.1											
0 ...0.6	0.01	x	x											
0 ...1	0.02	0.005	0.005											
0 ...1.6	0.05	0.01	0.005											
0 ...2.5	0.05	0.02	0.01											
0 ...4	0.1	0.02	0.01											
0 ...6	0.1	0.05	0.02											
0 ...10	0.2	0.05	0.05											
0 ...16	0.5	0.1	0.05											
0 ...25	0.5	0.2	0.1											
0 ...40	1	0.2	0.1											
0 ...60	1	0.5	0.2											
0 ...100	2	0.5	0.5											
0 ...160	5	1	0.5											
0 ...250 CE	5	2	1											
0 ...400 CE	10	2	1											
0 ...600 CE	10	5	2											
0 ...1000 CE	20	5	5											
0 ...1600 CE	50	x	x	x	x			x					x	x
0 ...2000 CE	50	x	x	x	x			x	x	x	x	x	x	x
0 ...2500* CE	50	x	x	x	x			x	x	x	x	x	x	x
0 ...3000* CE	50	x	x	x	x			x	x	x	x	x	x	x
0 ...4000** CE	50	x	x	x	x		See p14	x	x	x	x	x	x	x
0 ...5000***, 0 ... 6000*** and 0 ...7000*** - see page 14 CE														
NON STANDARD RANGES														
e.g. 0-7 bar or 0-110 psi														
DOUBLE SCALES														
e.g. bar/psi, bar/kPa, etc.														
FREON SCALES e.g. R12, R134A, R22, R404A, R407C, R502, R504, R717, NH3														
ACCURACY														
±1.6% F.S. (class 1.6)				•	•	x	x	x	•	•	x	x	x	x
±1.0% F.S. (class 1.0)						•	•	•			•	•	•	•
±0.6 / 0.5 %F.S. (class 0.6 or 0.5)***				x	x				x	x				
±0.3 / 0.25 %F.S. (class 0.3 or 0.25) ****				x	x	x	****	****	x	x	x	x	x	x
Mirrorscale (standard for PBX-TG, page 12)				x	x	x			x	x	x	x	x	x
TRM scales														
0 ...100 % lin.														
0 ...10 square root														
0.2 ...1 bar														
3 ...15 psi														
20 ...100 kPa														
x	NOT AVAILABLE * ELEMENT CrMo52 i.o. AISI316Ti/1.4571 *** ONLY FOR TYPE PBX OR PBX-SF													
•	STANDARD ** ELEMENT NiSpan C i.o. AISI316Ti/1.4571 ****ONLY FOR TYPE PBX-TG - see page 12													
***** Scale in Psi, kPa, kg/cm², mWC etc. available with no extra charge														

STANDARD PRESSURE RANGES FOR TYPES: PCX, PMX, PPC, PCD, PMD

PRESSURE RANGES												
(in mbar) **		SCALE DIVISION		CASE DIMENSIONS (in mm)								
		cl. 1.6	option cl. 1.0	Ø 100	Ø 160	Ø 250	72x72	96x96	144x144	192x192	72x144 144x72	192x96 96x192
-4 ...0*	0 ...4*	0.1	0.1	x	•	x	x	x	•	•	x	•
-6 ...0*	0 ...6*	0.1	0.1	x	•	x	x	x	•	•	x	•
-10 ...0*	0 ...10*	0.2	0.2	x	•	x	x	x	•	•	•	•
-16 ...0*	0 ...16*	0.5	0.5	x	•	x	x	x	•	•	•	•
-25 ...0	0 ...25	0.5	0.5	•	•	•	x	•	•	•	•	•
-40 ...0	0 ...40	1	1	•	•	•	•	•	•	•	•	•
-60 ...0	0 ...60	1	1	•	•	•	•	•	•	•	•	•
-100 ...0	0 ...100	2	2	•	•	•	•	•	•	•	•	•
-160 ...0	0 ...160	5	5	•	•	•	•	•	•	•	•	•
-250 ...0	0 ...250	5	5	•	•	•	•	•	•	•	•	•
-400 ...0	0 ...400	10	10	•	•	•	•	•	•	•	•	•
-2.5 ...1.5*	-1.5 ...2.5*	0.1	0.1	x	•	x	x	x	•	•	x	•
-4 ...2*	-2 ...4*	0.1	0.1	x	•	x	x	x	•	•	x	•
-6 ...4*	-4 ...6*	0.2	0.2	x	•	x	x	x	•	•	•	•
-10 ...6*	-6 ...10*	0.5	0.5	x	•	x	x	x	•	•	•	•
-15 ...10	-10 ...15	0.5	0.5	•	•	•	x	•	•	•	•	•
-25 ...15	-15 ...25	1	1	•	•	•	•	•	•	•	•	•
-40 ...20	-20 ...40	1	1	•	•	•	•	•	•	•	•	•
-60 ...40	-40 ...60	2	2	•	•	•	•	•	•	•	•	•
-100 ...60	-60 ...100	5	5	•	•	•	•	•	•	•	•	•
-150 ...100	-100 ...150	5	5	•	•	•	•	•	•	•	•	•
-250 ...150	-150 ...250	10	10	•	•	•	•	•	•	•	•	•
NON STANDARD RANGES:												
e.g. 0-50 mbar etc.												
DOUBLE SCALES												
e.g. mbar/mmWC, mbar/Pa, etc.												
ACCURACY												
±1.6% F.S. / class 1.6				•	•	•	•	•	•	•	•	•
±1.0% F.S. / class 1.0 *							x				x	x
Mirrorscale				x			x	x	x	x	x	x

NOT AVAILABLE STANDARD

* not for type PMX and ALL differential pressure gauges

** Scale in psi, kPa, kg/cm², mWC etc. available with no extra charge

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	PER ORDER
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	PER INSTRUMENT
Pressure (Bar)	<=2500 2500-4000 >=4000
Calibration certificate pressure gauge (standard for PBX-TG - see page 12)	Certificate traceable to international standards
Calibration certificate pressure gauge with transmitter (see page 64)	
Calibration certificates for type PBB (duplex)	

OPTIONS ON PRESSURE GAUGES

TYPE	CASE DIMENSIONS (in mm)	EXTRA COSTS							
		CONNECTIONS						CASE & BEZEL	
		1/8"BSP/NPT max. 400 bar	1/4"BSP/NPT max. 1000 bar	1/2"BSP max. 2500 bar***, 1/2"NPT max. 1000 bar	3/8"BSP/NPT max. 1000 bar	M20x1.5 max. 1600 bar	M16x1.5 H.P. female max. 7000 bar**	9/16"UNFx18 H.P. female max. 7000 bar**	AISI316L / 1.4404
PBX	063		•						×
	080		•					×	×
	100			•					
	160			•				*	*
	250			•				×	×
PBX-SF	063		•					○	×
	100			•				○	
	160			•				○	
PBB	100			•				×	×
	160			•				×	×
PCX	100			•			×	×	
	160			•			×	×	
	250			•			×	×	×
PMX	100			•			×	×	×
	160			•			×	×	×
PPB - PPC	square		•				×	×	×
	rectangular		•				×	×	×
PBS - PBQ	063	ON DEMAND: SEE ALSO PAGE 23-41							
PFS - PFQ	080							×	×
	100								
	160								
PBR - PBT	100	SEE PAGE 42-43							×
	160								×
PCD	100			•			×	×	
	160			•			×	×	
PBD	100			•			×	×	×
	160			•			×	×	×
PMD	100			•			×	×	
	160			•			×	×	×
POD	100						×	×	×
	160						×	×	*
RPX	ALL			•				×	×
PBX-SS	063		•					•	•
	100			•				•	•
	160			•				•	•

× NOT AVAILABLE
 • STANDARD
 ○ ON DEMAND
 * 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	063				●	●					×	×			
	080				●	●					×	×			
	100				●	●									
	160				●	●									
	250				●	●					×		×		
PBX-SF	063	×	×	●	×	×					×	×			
	100	×	×	●	×	×					×				
	160	×	×	●	×	×					×				
PBB	100				●	●	×				×				
	160				●	●	×				×				
PCX	100				●	●				○	×	×	×	×	see page 16
	160				●	●				○	×	×	×	×	
	250				●	●				×	×	×	×	×	
PMX	100				●	●					×		×	×	see page 17-18
	160				●	●					×		×	×	
PPB	square	●	×	×	×	×					×		×		○
PPC	rectangular	●	×	×	×	×	×	×	×	×	×		×		○
PBS	063		×		●	●					×	×	○		○
PBQ	080		×	×	●	●					×	×	○		○
PFS	100				●	●					×		○		○
PFQ	160				●	●					×		○		○
PBR	100				●	●					×		○		○
PBT	160				●	●					×		○		○
PCD	100	×		×	×	×		×	×	×	×	×	×		see page 46
	160	×		×	×	×		×	×	×	×	×	×		
PBD	100				●	●					×		×		×
	160				●	●					×		×		×
PDD	100				●	●					×	×	×		×
PMD	160				●	●					×	×	×		×
POD	100				●	●					×	×	×	×	×
	160				●	●					×	×	×	×	×
RPX	ALL	●	see page 21,	×	×	×	●	×	×	×	×		×	×	
RPP		●	22	×	×	×	●	×	×	×	×		×	×	
PBX-SS	063	×	●	×	×	×		×	×	×	×				
	100	×	●	×	×	×		×	×	×	×				
	160	×	●	×	×	×		×	×	×	×				

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