



## SB Series

## Stainless Steel Case Pressure Gauge

### Features

- Accuracy Class 1.6, \* Class 1.0
- Wide range vibration application
- Stainless steel case design
- Knock-down system back and front flange
- Bayonet lock case design
- Over pressure up to 30% of Full Scale
- Restrictor screw standard
- Excellent vibration resist with liquid filling
- Design scale ranges up to 1000 bar



### Application

SB Series is a special design with stainless steel case and copper alloy wetted part and fillable option for extreme vibration application and non-corrosive ambient field condition, with bayonet lock case design. Applicable for pneumatic and hydraulic systems, compressors, engines, pumps, sprinkles system, building automation system and processing unit where vibration is concern.

### Technical Specification

- Nominal Size  
50, 63, 100 and 150 mm
- Accuracy Class  
Class 1.6, Class 1.0 ( $\varnothing > 100\text{mm}$ )
- Ingress Protection  
IP 65 (Weather tight)
- Connection Size  
G $\frac{1}{4}$ , G $\frac{1}{2}$  or NPT
- Scale Range  
Pressure 0.. 1000 bar  
Vacuum -1 bar.. 0  
Compound -1.. 24 bar
- Tube Element Shape  
P  $\leq$  100 bar in C tube  
P  $>$  100 bar in helicoil
- Filling  
Dry or liquid filled
- Operating Temperature  
Ambient temperature -10 $^{\circ}$ .. +70 $^{\circ}$ C  
Medium temperature 90 $^{\circ}$ C Max.
- Temperature Error  
Additional error when pressure element temperature deviates from reference temperature +20 $^{\circ}$ C (+68 $^{\circ}$ F) be  $\pm 0.4\%$  / 10 $^{\circ}$ C (50 $^{\circ}$ F) rising or falling
- Over Pressure Limit  
130% of F.S. P  $<$  100 bar  
115% of F.S. P  $\geq$  100 bar
- Dial Graduation  
Black graduation on white for single range  
Black and red graduation on white for dual ranges



### Design Material

- Casing and Bezel Ring  
Stamped steel 304 and Blow Out Back Case
- Sensing Element  
Copper alloy
- Connection  
Brass
- Window  
Plain instrument glass
- Window gasket  
Industrial rubber seal
- Pointer  
Black painted aluminium
- Dial Plate  
Aluminium alloy



### Ordering Code



**BRO THOTERM**  
GERMANY TECHNOLOGY

SB Dial <sup>①</sup><Pressure range> <sup>②</sup> Mounting <sup>③</sup> - Connection <sup>④</sup> - Filling <sup>⑤</sup> \*Option <sup>⑥</sup>

①	Dial Size
200	2" or 50 mm
250	2 1/2" or 63 mm
500	4" or 100 mm
750	6" or 150 mm

③	Mounting
D	Bottom / Direct connection
B	Lower back connection
W	Bottom conn., back flange / Wall
S	Back conn., back flange
P	Back conn., front flange / Panel
U	Back connection with U-clamp

④	Connection size
G4	G 1/4"
N4	1/4"NPT
G2	G 1/2"
N2	1/2"NPT

⑤	Filling
D	Dry (Not fillable)
G	Glycerine filled
S	Silicone oil filled

⑥	Option
CD	Custom dial layout
SS	Stainless steel 316 case and bezel
MP	Micrometer adjustment pointer
SG	Laminated safety glass
O2	Oxygen service cleaning
OC	Other connection thread

② Dual ranges			Single range		
Bar	&	Psi	Bar or kg/cm2	Psi	kPa
-1..0	-30"Hg.	0	-1..0	-30"Hg.	0
-1..0.6	-30"Hg.	8	-1..0.6	-30"Hg.	10
-1..1.5	-30"Hg.	20	-1..1.5	-30"Hg.	15
-1..3	-30"Hg.	40	-1..3	-30"Hg.	30
-1..5	-30"Hg.	70	-1..5	-30"Hg.	60
-1..9	-30"Hg.	130	-1..9	-30"Hg.	150
-1..15	-30"Hg.	200	-1..15	-30"Hg.	200
-1..24	-30"Hg.	350	-1..24	-30"Hg.	300
0..1	0..15	0..1	0..1	0..15	0..100
0..1.6	0..23	0..1.6	0..1.6	0..20	0..160
0..2.5	0..35	0..2.5	0..2.5	0..30	0..250
0..4	0..60	0..4	0..4	0..60	0..400
0..6	0..85	0..6	0..6	0..85	0..600
0..7	0..100	0..7	0..7	0..100	0..700
0..10	0..150	0..10	0..10	0..150	0..1000
0..16	0..230	0..16	0..16	0..200	0..1600
0..25	0..350	0..25	0..25	0..300	0..2500
0..40	0..600	0..40	0..40	0..600	0..4000
0..60	0..850	0..60	0..60	0..850	0..6000
0..70	0..1000	0..70	0..70	0..1000	0..7000
0..100	0..1500	0..100	0..100	0..1500	0..10000
0..160	0..2300	0..160	0..160	0..2000	0..16000
0..250	0..3500	0..250	0..250	0..3000	0..25000
0..400	0..6000	0..400	0..400	0..6000	0..40000
0..600	0..8500	0..600	0..600	0..10000	0..60000
0..700	0..10000	0..700	0..700	0..10000	0..70000
0..1000	0..15000	0..1000	0..1000	0..15000	0..100000

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