



## SMB Series Monel Welled Part Pressure Gauge

### Features

- Accuracy Class 1.0
- Monel welled parts design
- Stainless steel case and bezel ring
- BOB -Blow Out Back disc case design
- DIN case, bayonet lock design
- Over pressure up to 30% of Full Scale
- Excellent vibration resist with liquid filling
- Pressure ranges up to 700 bar (10000psi)



### Application

SMB Series is an extension design pressure gauge with Monel 400 wetted part (Sensing element & connection), liquid fillable and with various option used in extreme corrosive & severe environment. SMB Series are commonly, uses in Process industries, sea water application, oil and gas, on shore and off shore, Water & Sewage, Petrochemical plants, etc

### Technical Specification

- Nominal Size  
100 and 160 mm
- Accuracy Class  
Class 1.0
- Ingress Protection  
IP 65 (Weather tight)
- Connection Size  
G $\frac{1}{2}$  or  $\frac{1}{2}$ NPT
- Scale Range  
Pressure 0.. 700 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 -30 $^{\circ}$ .. +70 $^{\circ}$ C  
Medium temperature 180 $^{\circ}$ 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  $\leq$  100 bar  
115% of F.S. P > 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  
SS 304, BOB (Blow Out Back) disc
- Sensing Element  
Monel 400 (2.4360)
- Wetted parts  
Monel 400 2.4360
- Window  
Plain instrument glass
- Window gasket  
Industrial rubber seal
- Pointer  
Black painted aluminium
- Dial Plate  
Aluminium alloy



### Ordering Code



**BRO THOTERM**  
GERMANY TECHNOLOGY

SMB 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
500	4" or 100mm
760	6" or 160mm
③	Mounting
D	Bottom / Direct connection
B	Lower back connection
W	Bottom conn., back flange / Wall
S	Back conn., back flange / Surface
P	Back conn., front flange / Panel
U	Back connection with U-clamp
④	Connection size
G4	G $\frac{1}{4}$ "
N4	$\frac{1}{4}$ "NPT
G2	G $\frac{1}{2}$ "
N2	$\frac{1}{2}$ " NPT
⑤	Filling
D	Dry
G	Glycerine filled
S	Silicone oil filled
⑥	Option
CD	Custom dial layout
SU	Special unit range
SS	Stainless steel 316 case and bezel
BB	Blow out back case
SG	Laminated safety glass
O2	Oxygen service cleaning
OC	Other connection thread

② Dual ranges			Single range		
Bar	&	Psi	Bar or kg/cm $^2$	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..15	0..100
0..1.6	0..23		0..1.6	0..20	0..160
0..2.5	0..35		0..2.5	0..30	0..250
0..4	0..60		0..4	0..60	0..400
0..6	0..85		0..6		0..600
0..7	0..100		0..7	0..100	0..700
0..10	0..150		0..10	0..150	0..1000
0..16	0..230		0..16	0..200	0..1600
0..25	0..350		0..25	0..300	0..2500
0..40	0..600		0..40	0..600	0..4000
0..60	0..850		0..60		0..6000
0..70	0..1000		0..70	0..1000	0..7000
0..100	0..1500		0..100	0..1500	0..10000
0..160	0..2300		0..160	0..2000	0..16000
0..250	0..3500		0..250	0..3000	0..25000
0..400	0..6000		0..400	0..6000	0..40000
0..600	0..8500		0..600		0..60000
0..700	0..10000		0..700	0..10000	0..70000

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