



## BS Series

## Black Steel Case Pressure Gauge

### Features

- Accuracy Class 1.6 or 2.5
- General industrial service application
- Black steel case and chromed steel bezel
- Welded back and front flange
- Screw fastening case design
- Over pressure up to 30% of Full Scale
- Restrictor screw standard
- Design scale ranges up to 600 bar



### Application

BS Series is a quality dry gauge designed to provide reliable service on non-corrosive and clean gaseous applications. The BS model are mostly used in manufacturing or processing industrial, especially for pneumatics, process, fabrication, compressed gas and common industrial application.

### Technical Specification

- **Nominal Size**  
40,50,63,75, 100,150,200, 250mm
- **Accuracy Class**  
40 .. 75 mm- Class 2.5  
100..250 mm- Class 1.6
- **Ingress Protection**  
IP 32
- **Connection Size**  
G $\frac{1}{8}$ , G $\frac{1}{4}$ , G $\frac{1}{2}$  or NPT
- **Scale Range**  
Pressure 0.. 600 bar  
Vacuum -1 bar.. 0  
Compound -1.. 24 bar
- **Filling**  
Dry execution
- **Tube Element Shape**  
P  $\leq$  100 bar in C tube  
P > 100 bar in helicoil
- **Operating Temperature**  
Ambient temperature -10 $^{\circ}$ .. +70 $^{\circ}$ C  
Medium temperature 70 $^{\circ}$ C Max.
- **Temperature Error**  
Additional error when pressure element temperature deviates from reference temperature +20 C $^{\circ}$ (+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**  
Black steel, chromed bezel (40.. 100mm)  
Black steel and bezel (150..250mm)
- **Sensing Element**  
Copper alloy
- **Connection**  
Brass
- **Window**  
Acrylic plastic / Instrument glass
- **Window gasket**  
Plastic
- **Pointer**  
Black painted aluminium
- **Dial Plate**  
Aluminium alloy



1	Dial Size
150	1 $\frac{1}{2}$ " or 40 mm
200	2" or 50 mm
250	2 $\frac{1}{2}$ " or 63 mm
300	3" or 75 mm
500	4" or 100 mm
750	6" or 150 mm
800	8" or 200 mm
900	10" or 250 mm

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

4	Connection size
G8	G $\frac{1}{8}$ "
N8	$\frac{1}{8}$ "NPT
G4	G $\frac{1}{4}$ "
N4	$\frac{1}{4}$ "NPT
G3	G $\frac{3}{8}$ "
N3	$\frac{3}{8}$ " NPT
G2	G $\frac{1}{2}$ " (Ø100.. 150mm)
N2	$\frac{1}{2}$ " NPT (Ø100.. 150mm)

5	Filling
D	Dry (Not fillable)

6	Option
CD	Custom dial layout
SU	Special unit range
O2	Oxygen service cleaning
OC	Other connection thread

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GERMANY TECHNOLOGY



### Ordering Code

BS Dial <sup>1</sup><Range> <sup>2</sup>Mounting <sup>3</sup>- Connection <sup>4</sup>- Filling <sup>5</sup>\*Option <sup>6</sup>

2 Dual ranges			Single range		
Bar	& Psi		Bar or kg/cm2	Psi	kPa
-1..0	-30"Hg.. 0	0	-1..0	-30"Hg.. 0	-30"Hg.. 0
-1..0.6	-30"Hg.. 8	8	-1..0.6	-30"Hg.. 10	-30"Hg.. 60
-1..1.5	-30"Hg.. 20	20	-1..1.5	-30"Hg.. 15	-30"Hg.. 150
-1..3	-30"Hg.. 40	40	-1..3	-30"Hg.. 30	-30"Hg.. 300
-1..5	-30"Hg.. 70	70	-1..5	-30"Hg.. 60	-30"Hg.. 500
-1..9	-30"Hg.. 130	130	-1..9	-30"Hg.. 150	-30"Hg.. 900
-1..15	-30"Hg.. 200	200	-1..15	-30"Hg.. 200	-30"Hg.. 1500
-1..24	-30"Hg.. 350	350	-1..24	-30"Hg.. 300	-30"Hg.. 2400
0..1	0.. 15	0.. 15	0..1	0.. 15	0.. 100
0.. 1.6	0.. 23	0.. 23	0.. 1.6	0.. 20	0.. 160
0.. 2.5	0.. 35	0.. 35	0.. 2.5	0.. 30	0.. 250
0.. 4	0.. 60	0.. 60	0.. 4	0.. 60	0.. 400
0.. 6	0.. 85	0.. 85	0.. 6		0.. 600
0.. 7	0.. 100	0.. 100	0.. 7	0.. 100	0.. 700
0.. 10	0.. 150	0.. 150	0.. 10	0.. 150	0.. 1000
0.. 16	0.. 230	0.. 230	0.. 16	0.. 200	0.. 1600
0.. 25	0.. 350	0.. 350	0.. 25	0.. 300	0.. 2500
0.. 40	0.. 600	0.. 600	0.. 40	0.. 600	0.. 4000
0.. 60	0.. 850	0.. 850	0.. 60		0.. 6000
0.. 70	0.. 1000	0.. 1000	0.. 70	0.. 1000	0.. 7000
0.. 100	0.. 1500	0.. 1500	0.. 100	0.. 1500	0.. 10000
0.. 160	0.. 2300	0.. 2300	0.. 160	0.. 2000	0.. 16000
0.. 250	0.. 3500	0.. 3500	0.. 250	0.. 3000	0.. 25000
0.. 400	0.. 6000	0.. 6000	0.. 400	0.. 6000	0.. 40000
0.. 600	0.. 8500	0.. 8500	0.. 600		0.. 60000

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