



## GS550 Series

## Safety Pattern Case Pressure Gauge

### Features

- Accuracy Class 0.5
- Chemical & petroleum processing industries
- Polypropylene or Phenolic material
- Fully safety Blow Out Back design
- Stainless steel wetted parts structure
- Over pressure up to 30% of Full Scale
- Meet Class ANSI B40.1 or EN837-1
- Excellent vibration resist with liquid filling
- Design scale ranges up to 1600 bar

### Application

GS550 is an ANSI standard 4.5" safety pressure gauge for extreme corrosive and severe environment with Safety pattern design (Solid front/Baffle front) and stainless steel wetted part. Fillable case and built in Restrictor screw (Throttle screw) on connection are design to be used in vibration and pulsation area. Commonly use in many industries such as Oil&Gas, petrochemical, mining, pulp&paper, X tree, etc.

### Technical Specification

- Nominal Size  
130 mm / 4½"
- Accuracy Class  
Class 0.5
- Ingress Protection  
IP 65 (Weather tight)
- Connection Size  
G½ or ½ NPT
- Scale Range  
Pressure 0.. 1600 bar  
Vacuum -1 bar.. 0  
Compound -1.. 24 bar
- Tube Element Shape  
P ≤ 100 bar in C tube  
P > 100 bar in helicoil
- Filling  
Dry or liquid filled
- Operating Temperature  
Ambient temperature -30°.. +70°C  
Medium temperature 100°C Max.
- Temperature Error  
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be ±0.4% / 10°C (50°F) rising or falling
- Over Pressure Limit  
130% of F.S. P ≤ 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  
Polypropylene (GS550)  
Phenolic (GS551)
- Sensing Element  
Stainless steel 316
- Connection  
Stainless steel 316
- Window  
Safety laminated glass
- Window gasket  
Industrial rubber seal or PTFE
- Pointer  
Black aluminum, adjustable
- Dial Plate  
Aluminum alloy

### Ordering Code

Model <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
GS550	Polypropylene case
GS551	Phenolic case
③	Mounting
W	Bottom conn., back flange / Wall
S	Back conn., back flange / Surface
④	Connection size
G2	G ½"
N2	½" NPT
⑤	Filling
D	Dry
G	Glycerine filled
S	Silicone oil filled
⑥	Option
CD	Custom dial layout
SU	Special unit range
O2	Oxygen service cleaning
OC	Other connection thread

② Dual ranges			Single range		
Bar	& Psi	0	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.. 100	0.. 1	0.. 15	0.. 100
0.. 1.6	0.. 23	0.. 160	0.. 1.6	0.. 20	0.. 160
0.. 2.5	0.. 35	0.. 250	0.. 2.5	0.. 30	0.. 250
0.. 4	0.. 60	0.. 400	0.. 4	0.. 60	0.. 400
0.. 6	0.. 85	0.. 600	0.. 6		0.. 600
0.. 7	0.. 100	0.. 700	0.. 7	0.. 100	0.. 700
0.. 10	0.. 150	0.. 1000	0.. 10	0.. 150	0.. 1000
0.. 16	0.. 230	0.. 1600	0.. 16	0.. 200	0.. 1600
0.. 25	0.. 350	0.. 2500	0.. 25	0.. 300	0.. 2500
0.. 40	0.. 600	0.. 4000	0.. 40	0.. 600	0.. 4000
0.. 60	0.. 850	0.. 6000	0.. 60		0.. 6000
0.. 70	0.. 1000	0.. 7000	0.. 70	0.. 1000	0.. 7000
0.. 100	0.. 1500	0.. 10000	0.. 100	0.. 1500	0.. 10000
0.. 160	0.. 2300	0.. 16000	0.. 160	0.. 2000	0.. 16000
0.. 250	0.. 3500	0.. 25000	0.. 250	0.. 3000	0.. 25000
0.. 400	0.. 6000	0.. 40000	0.. 400	0.. 6000	0.. 40000
0.. 600	0.. 8500	0.. 60000	0.. 600		0.. 60000
0.. 700	0.. 10000	0.. 70000	0.. 700	0.. 10000	0.. 70000
0.. 1000	0.. 15000	0.. 100000	0.. 1000	0.. 15000	0.. 100000
0.. 1600	0.. 23000	0.. 160000	0.. 1600	0.. 20000	0.. 160000





## GV Series Baffle Wall Safety Pattern Stainless Steel Gauge

### Features

- Accuracy Class 1.0 and 1.6 (63mm)
- Wide range safety application
- Safety pattern solid front case design
- Baffle wall with full Blow-Out-Back (BOB)
- All stainless steel construction
- 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

GV Series is a premium safety pattern design pressure gauge for extreme corrosive and non-corrosive environment, with baffle wall solid front with full Blow-Out-Back (BOB) and fully stainless steel construction. Liquid fillable case for application with high dynamic pressure vibration. Suitable for satisfaction requirement to process industries, power plants, hydraulic, boilers and chillers, onshore and offshore, drilling application.

### Technical Specification

- Nominal Size  
63, 100 and 150 mm
- Accuracy Class  
Class 1.0 (100 & 160mm)  
Class 1.6 (63 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 -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  
Stainless steel 304, full Blow-Out-Back
- Sensing Element  
Stainless steel 316
- Connection  
Stainless steel 316
- Window  
Laminated safety glass
- Window gasket  
Industrial rubber seal
- Pointer  
Black painted aluminum
- Dial Plate  
Aluminum alloy

### Ordering Code

GV 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
150	2 1/2" or 63 mm
500	4" or 100 mm
750	6" or 160 mm
③	Mounting
D	Bottom / Direct connection
④	Connection size
G4	G 1/4"
N4	1/4" NPT
G2	G 1/2"
N2	1/2" NPT
⑤	Filling
D	Dry
G	Glycerine filled
S	Silicone oil filled
⑥	Option
CD	Custom dial layout
SU	Special unit range
AP	Adjustable pointer
OC	Other connection thread

② Dual ranges		④ Single range			
Bar	Psi	Bar or kg/cm <sup>2</sup>	Psi	tPa	tPa
-1.0	-30Hg.	0	-1.0	-30Hg.	0
-1.0.6	-30Hg.	8	-1.0.6	-30Hg.	10
-1.15	-30Hg.	20	-1.15	-30Hg.	15
-1.3	-30Hg.	40	-1.3	-30Hg.	30
-1.5	-30Hg.	70	-1.5	-30Hg.	60
-1.9	-30Hg.	130	-1.9	-30Hg.	150
-1.15	-30Hg.	200	-1.15	-30Hg.	200
-1.24	-30Hg.	350	-1.24	-30Hg.	300
0.1	0.15	0.1	0.15	0.100	0.100
0.16	0.23	0.16	0.20	0.160	0.160
0.25	0.35	0.25	0.30	0.250	0.250
0.4	0.60	0.4	0.60	0.400	0.400
0.6	0.85	0.6	0.60	0.600	0.600
0.7	0.100	0.7	0.100	0.700	0.700
0.10	0.150	0.10	0.150	0.1000	0.1000
0.16	0.230	0.16	0.200	0.1600	0.1600
0.25	0.350	0.25	0.300	0.2500	0.2500
0.40	0.600	0.40	0.600	0.4000	0.4000
0.60	0.850	0.60	0.600	0.6000	0.6000
0.70	0.1000	0.70	0.1000	0.7000	0.7000
0.100	0.1500	0.100	0.1500	0.10000	0.10000
0.160	0.2300	0.160	0.2000	0.16000	0.16000
0.250	0.3500	0.250	0.3000	0.25000	0.25000
0.400	0.6000	0.400	0.6000	0.40000	0.40000
0.600	0.8500	0.600	0.6000	0.60000	0.60000
0.700	0.10000	0.700	0.10000	0.70000	0.70000
0.1000	0.15000	0.1000	0.15000	0.100000	0.100000



## SW Series Solid Front Safety Pattern Stainless Steel Gauge

### Features

- Accuracy Class 1.0
- Solid front with burst blow out disc
- Bayonet lock type bezel ring
- All stainless steel construction
- Knock down panel mount
- 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

SW Series is a premium design pressure gauge for extreme corrosive and non-corrosive environment, with safety pattern solid front and bayonet lock case and fully stainless steel construction. Liquid fillable case for application with high dynamic pressure vibration. Suitable for satisfaction requirement to process industries, power plants, onshore and offshore, hydraulic, boilers and chillers, x-tree well head, drilling application.

### Technical Specification

- **Nominal Size**  
107 mm or 4.25"
- **Accuracy Class**  
Class 1.0 of Full Scale
- **Ingress Protection**  
IP 65 (Weather tight)
- **Connection Size**  
G 1/4, G 1/2 or NPT
- **Scale Range**  
Pressure 0.. 1000 bar  
Vacuum -1 bar.. 0  
Compound -1.. 24 bar
- **Tube Element Shape**  
P ≤ 100 bar in C tube  
P > 100 bar in helicoil
- **Filling**  
Dry or liquid filled
- **Operating Temperature**  
Ambient temperature -30°.. +70°C  
Medium temperature 180°C Max.
- **Temperature Error**  
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be ±0.4% / 10°C (50°F) rising or falling
- **Over Pressure Limit**  
130% of F.S. P ≤ 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**  
Stainless steel 304, solid front
- **Sensing Element**  
Stainless steel 316
- **Connection**  
Stainless steel 316
- **Window**  
Laminated safety glass
- **Window gasket**  
Industrial rubber seal
- **Pointer**  
Black painted aluminum
- **Dial Plate**  
Aluminum alloy

### Ordering Code

SW500 <Pressure range> <sup>①</sup> Mounting <sup>②</sup> - Connection <sup>③</sup> - Filling <sup>④</sup> \*Option <sup>⑤</sup>

SW500	107 mm or 4.25"
<b>②</b>	<b>Mounting</b>
D	Bottom / Direct connection
B	Back connection
P	Back conn., front flange / Panel
<b>③</b>	<b>Connection size</b>
G4	G 1/4"
N4	1/4" NPT
G2	G 1/2"
N2	1/2" NPT
<b>④</b>	<b>Filling</b>
D	Dry
G	Glycerine filled
S	Silicone oil filled
<b>⑤</b>	<b>Option</b>
CD	Custom dial layout
SU	Special unit range
O2	Oxygen service cleaning
OC	Other connection thread

① 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
-1.15	-30 Hg.	20	-1.15	-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.	100
-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	0.100
0.16	0.23	0.16	0.20	0.160	0.160
0.25	0.35	0.25	0.30	0.250	0.250
0.4	0.60	0.4	0.60	0.400	0.400
0.6	0.85	0.6	0.80	0.600	0.600
0.7	1.00	0.7	1.00	0.700	0.700
0.10	0.150	0.10	0.150	0.1000	0.1000
0.16	0.230	0.16	0.200	0.1600	0.1600
0.25	0.350	0.25	0.300	0.2500	0.2500
0.40	0.600	0.40	0.600	0.4000	0.4000
0.60	0.850	0.60	0.800	0.6000	0.6000
0.70	1.000	0.70	1.000	0.7000	0.7000
0.100	0.1500	0.100	0.1500	0.10000	0.10000
0.160	0.2300	0.160	0.2000	0.16000	0.16000
0.250	0.3500	0.250	0.3000	0.25000	0.25000
0.400	0.6000	0.400	0.6000	0.40000	0.40000
0.600	0.8500	0.600	0.8000	0.60000	0.60000
0.700	1.0000	0.700	1.0000	0.70000	0.70000
0.1000	0.15000	0.1000	0.15000	0.100000	0.100000