



BPG500 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

BPG500 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 / 4 1/2"
- Accuracy Class
Class 0.5
- Ingress Protection
IP 65 (Weather tight)
- Connection Size
G 1/2 or 1/2 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 (BPG500)
Phenolic (BPG501)
- 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 ^① <Pressure range> ^② Mounting ^③ - Connection ^④ - Filling ^⑤ *Option ^⑥

①	Dial
BPG500	Polypropylene case
BPG501	Phenolic case

③	Mounting
W	Bottom conn., back flange / Wall
S	Back conn., back flange / Surface

④	Connection size
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
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	-100.. 0
-1..0.6	-30"Hg.. 8	-1..0.6	-30"Hg.. 10	-100.. 60
-1..1.5	-30"Hg.. 20	-1..1.5	-30"Hg.. 15	-100.. 150
-1..3	-30"Hg.. 40	-1..3	-30"Hg.. 30	-100.. 300
-1..5	-30"Hg.. 70	-1..5	-30"Hg.. 60	-100.. 500
-1..9	-30"Hg.. 130	-1..9	-30"Hg.. 150	-100.. 900
-1..15	-30"Hg.. 200	-1..15	-30"Hg.. 200	-100.. 1500
-1..24	-30"Hg.. 350	-1..24	-30"Hg.. 300	-100.. 2400
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
0..1000	0..15000	0..1000	0..15000	0..100000
0..1600	0..23000	0..1600	0..20000	0..160000

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