SS PRESSURE GAUGE 4″ DIAL

Bottom Connection · Bourdon Tube Pressure Gauge · Stainless Steel 316 · EN 837-1

BRAND: AIRTECH | ORIGIN: INDIA | DIAL 4″ (NS100) | BOTTOM CONNECTION | 1 TO 1000 BAR



FIG. 1 | SS PRESSURE GAUGE 4″ DIAL BOTTOM CONNECTION

PRODUCT OVERVIEW

The Airtech SS Pressure Gauge 4 inch Dial is a C type Bourdon tube instrument built to EN 837-1, with a stainless steel case and stainless steel 316 wetted parts. It is intended for corrosive, marine and washdown environments, and the 100 mm dial provides a large, clearly graduated face that can be read from a distance on plant and skid installations.

The stainless steel 316 Bourdon tube and socket give good resistance to seawater, process chemicals and cleaning agents, while a blow-out back protects the operator in the event of tube failure. The gauge is supplied dry as standard, or glycerine filled for pulsating and high vibration service. Bottom entry allows direct mounting into a tee, manifold or gauge cock.

Instrument type	**Bourdon tube pressure gauge**
Dial size	**4″ (100 mm nominal)**
Connection position	**Bottom (radial) entry, male threaded**
Case material	**Stainless steel**
Wetted parts	**Stainless steel 316**
Pressure range	**0 to 1 bar up to 0 to 1000 bar. Compound -4 bar to -10 bar**

TECHNICAL SPECIFICATION

Design standard	**EN 837-1**
Sensing element	**C type Bourdon tube**
Accuracy class	**1.0 (EN 837-1)**
Process connection	**1/2" BSP or NPT, male**
Mounting	**Direct line or stem mounted**
Case filling	**Dry, or glycerine filled**

Scale range	**0 to 1 bar up to 0 to 1000 bar. Compound -4 bar to -10 bar**
Steady load limit	**Full scale value**
Fluctuating load	**0.9 x full scale value**
Short time overload	**1.3 x full scale value**
Ambient temperature	**-20°C to +60°C**
Country of origin	**India**

BILL OF MATERIALS

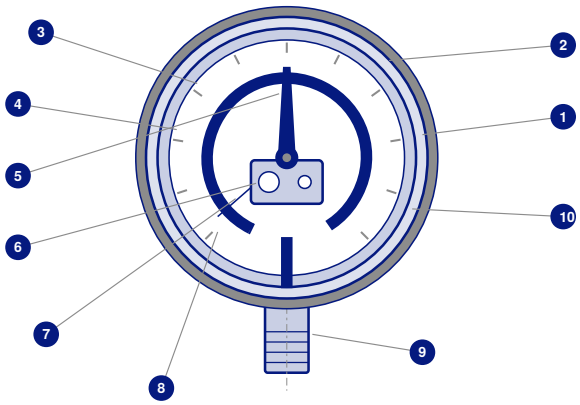


FIG. 2 | SECTIONAL ARRANGEMENT, BOTTOM CONNECTION

#	COMPONENT	MATERIAL
1	Case	Stainless steel
2	Bezel ring	Stainless steel, crimped bayonet
3	Window	Instrument glass
4	Dial plate	Aluminium, white with black scale
5	Pointer	Aluminium, black, adjustable
6	Movement	Stainless steel geared movement
7	Link	Stainless steel
8	Bourdon tube	Stainless steel 316, C type
9	Socket / stem	Stainless steel 316
10	Back cover	Stainless steel, blow-out back

Dry construction is standard. Glycerine filled cases are available for pulsating or high vibration duty. Pointer is adjustable and the movement is calibrated against a reference gauge before despatch.

CASE AND MOUNTING DIMENSIONS

DIAL	NOMINAL SIZE NS	CASE DIA. D1 (MM)	FLANGE DIA. D2 (MM)	FIXING PCD D3 (MM)	FIXING HOLE D4 (MM)	CONNECTION
2.1/2"	63	61	86	75	3.6	1/4" BSP / NPT
4"	100	97	134	118	6	1/2" BSP / NPT
6"	150	147	186	168	6	1/2" BSP / NPT
6"	160	157	196	178	6	1/2" BSP / NPT

Highlighted row applies to this listing. Case and flange dimensions are the nominal values given in EN 837-1 for the stated nominal size and are for guidance only. Case depth, overall height and weight vary with the case filling and the connection selected. Certified manufacturer drawings are issued on request. Both NS150 and NS160 are offered commercially as a 6 inch dial, confirm which is required at enquiry stage.

ORDERING INFORMATION

FIELD	OPTIONS
Product description	SS Pressure Gauge 4″ Dial Bottom Connection
Brand and origin	Airtech, India
Dial size	4″ (100 mm nominal)
Connection	1/2" BSP or NPT, male, bottom entry
Range	0 to 1 bar up to 0 to 1000 bar. Compound -4 bar to -10 bar
Case filling	Dry standard. Glycerine filled on request
Order example	**AIRTECH SS GAUGE / 4″ DIAL / BOTTOM / 0-16 BAR / 1/2" BSP / DRY**

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and calibration certification requirements.

PRESSURE RANGES

UNIT	LOWEST RANGE	HIGHEST RANGE
bar	0 to 1	0 to 1000
psi	0 to 14.5	0 to 14504
kg/cm²	0 to 1.02	0 to 1020
MPa	0 to 0.1	0 to 100
bar, compound	-4 bar to -10 bar	

Select a range so that the normal working pressure falls at about the middle of the scale. The table gives the lowest and the highest scale range offered. Compound ranges of -4 bar to -10 bar are also offered, covering vacuum and pressure on one dial. Intermediate ranges within these limits are available. Confirm the exact range required at order stage.

TYPICAL APPLICATIONS

- Marine, offshore and shipboard systems
- Chemical and petrochemical processing
- Food, beverage and dairy plant
- Corrosive and aggressive fluid service
- Water treatment and desalination plant
- Boilers, tanks, pumps and compressors

COMPLIANCE AND QUALITY

- Manufactured in accordance with EN 837-1
- Accuracy class 1.0 for 100 mm nominal size
- Blow-out back fitted as a safety feature
- 100% pressure tested and calibrated before despatch
- Calibration certificate available on request
- Material test certificate available on request
- Adjustable pointer for zero setting

TEMPERATURE LIMITS

Ambient	**-20°C to +60°C**
Medium, maximum	**+60°C at the gauge**

Fit a siphon or cooling element for steam and hot media so that the temperature at the gauge stays within the limits above.

INSTALLATION AND OPERATION

- Mount where the dial is clearly visible and free from vibration
- Tighten on the socket hexagon flats only, never on the case or bezel
- Seal the male thread with a bonded washer or PTFE tape
- Fit a siphon or cooling coil on steam and hot media
- Fit a snubber or needle restrictor on pulsating service
- Do not exceed 1.3 x full scale, even for a short period

COMPANY

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