

SS PRESSURE GAUGE 2½" DIAL

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

BRAND: AIRTECH

ORIGIN: INDIA

DIAL 2½" (NS63)

BOTTOM CONNECTION

1 TO 400 BAR



FIG. 1 | SS PRESSURE GAUGE 2½" DIAL BOTTOM CONNECTION

PRODUCT OVERVIEW

The Airtech SS Pressure Gauge 2½ 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 where a plated steel case would not survive, and the compact 63 mm dial suits panels and manifolds where mounting space is limited.

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	2½" (63 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 400 bar. Compound -4 bar to -10 bar

TECHNICAL SPECIFICATION

Design standard	EN 837-1	Scale range	0 to 1 bar up to 0 to 400 bar. Compound -4 bar to -10 bar
Sensing element	C type Bourdon tube	Steady load limit	Full scale value
Accuracy class	1.6 (EN 837-1)	Fluctuating load	0.9 x full scale value
Process connection	1/4" BSP or NPT, male	Short time overload	1.3 x full scale value
Mounting	Direct line or stem mounted	Ambient temperature	-20°C to +60°C
Case filling	Dry, or glycerine filled	Country of origin	India



PRODUCT DATA SHEET

SS PRESSURE GAUGE 2½" DIAL

Rev. 01

BILL OF MATERIALS

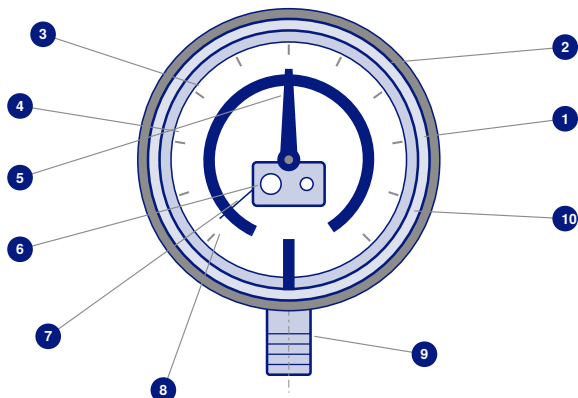


FIG. 2 | SECTIONAL ARRANGEMENT, BOTTOM CONNECTION

#	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 2½" Dial Bottom Connection
Brand and origin	Airtech, India
Dial size	2½" (63 mm nominal)
Connection	1/4" BSP or NPT, male, bottom entry
Range	0 to 1 bar up to 0 to 400 bar. Compound -4 bar to -10 bar
Case filling	Dry standard. Glycerine filled on request
Order example	AIRTECH SS GAUGE / 2½" DIAL / BOTTOM / 0-16 BAR / 1/4" 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.



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Rev. 01

PRESSURE RANGES

UNIT	LOWEST RANGE	HIGHEST RANGE
bar	0 to 1	0 to 400
psi	0 to 14.5	0 to 5802
kg/cm ²	0 to 1.02	0 to 408
MPa	0 to 0.1	0 to 40
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 1.6 for 63 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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