CP PRESSURE GAUGE 4″ DIAL

Bottom Connection · Bourdon Tube Pressure Gauge · Chrome Plated Case · EN 837-1

BRAND: AIRTECH | ORIGIN: INDIA | DIAL 4″ (NS100) | BOTTOM CONNECTION | 7 TO 400 BAR



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

PRODUCT OVERVIEW

The Airtech CP Pressure Gauge 4 inch Dial is a C type Bourdon tube instrument built to EN 837-1 for accurate pressure indication on water, air, oil and other non aggressive media. The chrome plated steel case gives a clean, hard wearing finish, and the 100 mm dial provides a large, clearly graduated face that can be read from a distance on plant and skid installations.

Pressure is sensed by a phosphor bronze Bourdon tube connected through a brass socket, which makes the gauge well suited to potable water, compressed air and general utility duty. It is supplied dry as standard, or glycerine filled where vibration or pulsation would otherwise shorten pointer life. 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	**Steel, chrome plated**
Wetted parts	**Brass and phosphor bronze**
Pressure range	**0 to 7 bar up to 0 to 400 bar**

TECHNICAL SPECIFICATION

Design standard	**EN 837-1**	Scale range	**0 to 7 bar up to 0 to 400 bar**
Sensing element	**C type Bourdon tube**	Steady load limit	**Full scale value**
Accuracy class	**1.0 (EN 837-1)**	Fluctuating load	**0.9 x full scale value**
Process connection	**1/2" 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**

BILL OF MATERIALS

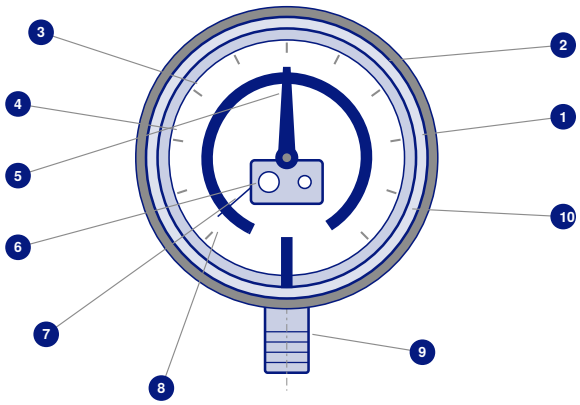


FIG. 2 | SECTIONAL ARRANGEMENT, BOTTOM CONNECTION

#	COMPONENT	MATERIAL
1	Case	Steel, chrome plated
2	Bezel ring	Steel, chrome plated
3	Window	Instrument glass
4	Dial plate	Aluminium, white with black scale
5	Pointer	Aluminium, black, adjustable
6	Movement	Brass geared movement
7	Link	Brass
8	Bourdon tube	Phosphor bronze, C type
9	Socket / stem	Brass
10	Back cover	Steel, chrome plated

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	CP 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 7 bar up to 0 to 400 bar
Case filling	Dry standard. Glycerine filled on request
Order example	**AIRTECH CP 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 7	0 to 400
psi	0 to 102	0 to 5802
kg/cm²	0 to 7.14	0 to 408
MPa	0 to 0.7	0 to 40

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. Intermediate ranges within these limits are available. Confirm the exact range required at order stage.

TYPICAL APPLICATIONS

- Boilers, tanks, pumps and compressors
- Plumbing, HVAC and chilled water systems
- Compressed air and pneumatic lines
- Hydraulic power packs and test rigs
- Water supply, irrigation and booster sets
- General industrial and utility pressure monitoring

COMPLIANCE AND QUALITY

- Manufactured in accordance with EN 837-1
- Accuracy class 1.0 for 100 mm nominal size
- Dry or glycerine filled build for vibrating service
- 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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