

CP PRESSURE GAUGE 2½" DIAL

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

BRAND: AIRTECH

ORIGIN: INDIA

DIAL 2½" (NS63)

BOTTOM CONNECTION

5 TO 100 BAR

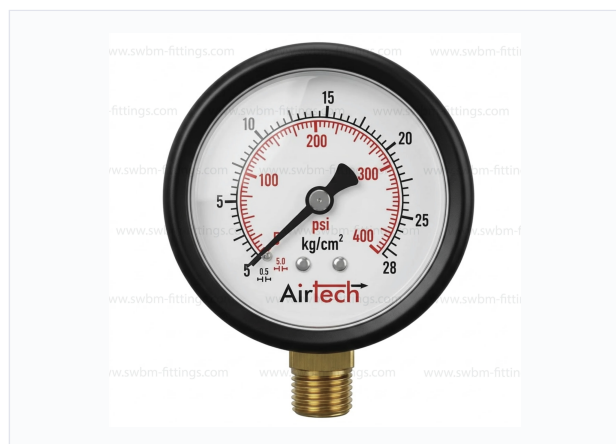


FIG. 1 | CP PRESSURE GAUGE 2½" DIAL BOTTOM CONNECTION

PRODUCT OVERVIEW

The Airtech CP Pressure Gauge 2½ 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 compact 63 mm dial suits panels, manifolds and plant rooms where mounting space is limited.

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	2½" (63 mm nominal)
Connection position	Bottom (radial) entry, male threaded
Case material	Steel, chrome plated
Wetted parts	Brass and phosphor bronze
Pressure range	5 bar to 100 bar

TECHNICAL SPECIFICATION

Design standard	EN 837-1	Scale range	0 to 5 bar up to 0 to 100 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

CP PRESSURE GAUGE 2½" DIAL

Rev. 01

BILL OF MATERIALS

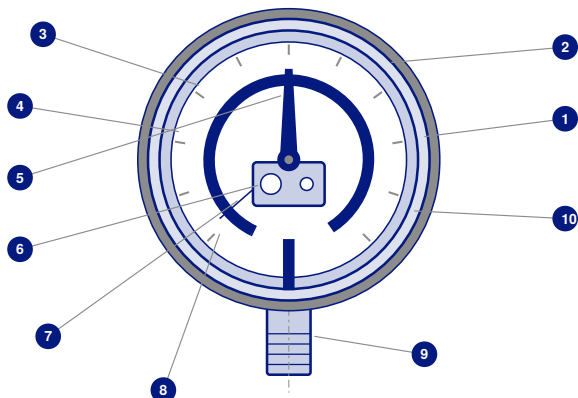


FIG. 2 | SECTIONAL ARRANGEMENT, BOTTOM CONNECTION

#	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
2½"	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 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 5, 10, 16, 25, 40, 60 or 100 bar
Case filling	Dry standard. Glycerine filled on request
Order example	AIRTECH CP 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.



PRODUCT DATA SHEET

CP PRESSURE GAUGE 2½" DIAL

Rev. 01

PRESSURE RANGES

BAR	PSI	KG/CM²	MPA
0 to 5	0 to 72.5	0 to 5.10	0 to 0.5
0 to 10	0 to 145	0 to 10.20	0 to 1.0
0 to 16	0 to 232	0 to 16.32	0 to 1.6
0 to 25	0 to 363	0 to 25.49	0 to 2.5
0 to 40	0 to 580	0 to 40.79	0 to 4.0
0 to 60	0 to 870	0 to 61.18	0 to 6.0
0 to 100	0 to 1450	0 to 101.97	0 to 10.0

Select a range so that the normal working pressure falls at about the middle of the scale. Ranges shown are the standard decimal series between the 5 bar and 100 bar limits published for this listing. Confirm the exact stocked ranges at enquiry 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 1.6 for 63 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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