Absolute Pressure Gauges - Bourdon Type

FRANCE

MODEL: APBR

Why Absolute Pressure Gauge?

The atmospheric pressure varies from place to place depending up on the altitude of the location and prevailing weather conditions. In such variable conditions, precise pressure measurement can be arrived only if a fixed (un-changing) reference point is established.

This is achieved by totally evacuating and sealing the Bourdon tube, which will act as the reference point for calibration i.e. Absolute Zero. The process pressure is applied inside the enclosure surrounding the Bourdon tube. Any pressure applied is compared to the sealed reference (Bourdon tube) to get an accurate measurement of absolute pressure, through a precision Movement mechanism.



Features

- Compliance to latest EN-837 standard
- Range : As shown in the table
- Bourdon in SS316 as standard providing better mechanical properties guaranteeing repeatability and accuracy
- Accuracy ±1% FSD

Note: Bourdon type Absolute Pressure Gauges are recommended for non-corrosive, clean, clear (colourless) & dry Gases / Air only

Specifications

Ref. Standard EN-837

Dial 100 mm/150 in Aluminium, white background,

black markings

Case SS304 / SS316 with bayonet bezel Protection IP-68 (IS:13947 part I / IEC:60529)

Window Safety glass (Shatter proof / Toughened glass)

 Sensor
 Bourdon in SS316 / SS316L

 Socket
 22mm Square in SS316 / SS316L

Movement SS304, SS316

Connection 1/2" NPT (M) as standard (other optional)

Accuracy ±1% FSD
Over range As per EN 837
Zero adjustment Micrometer Pointer

Temperature suitability Ambient (-)20°C to 60°C, Media 100°C

Temperature Effect Within $\pm 0.4\%$ FSD/10°C, when temperature changes from

reference temperature of 20°C (as per EN-837 standard)

Optional NACE compliance

CE Atex Ranges

0 to 1 kg/cm2(a) 0 to 1.6 kg/cm2(a) 0 to 2.5 kg/cm2(a) 0 to 4 kg/cm2(a) Other on request

Note: Equivalent Reading in other pressure Units also can be provided on request

The parameters mentioned here are the standard specifications / values generally used for most of the process applications. Any other specification not appearing here also can be provided as per customer requirement.