

Absolute Pressure Gauges - Bourdon Type

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 $\pm 1\%$ 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	$\pm 1\%$ 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.

Under Technical Collaboration with M/s. Gauges Bourdon, France

Ordering Information

MODEL

MODEL							
BASIC MODEL CODE				OPTION			
APBR Absolute PG, Bourdon Sensing				ATX Atex BGS Built In Gauge Saver BSN Built In Snubber CLB Colour Band CEM CE marking DUS Dual Scale NAC NACE OXY O2 Cleaning VCP Vac protection ACC Accessory XXX Other L Nil			
MOUNTING				UNIT			
V Bottom Entry, Local Mounting S Bottom Entry, Surface Mounting Y Bottom Entry, 2" Pipe Mounting C Back Entry, Local Mounting P Back Entry, Flush Panel Mounting				KSC kg/cm2(a) BAR bar(a) PSI psi(a) KPA kPa(a) MPA MPa(a) MBR mbar(a) MMW mm WC(a) CMW cm WC(a) MWC m WC(a) INW inch WC(a) MMH mm Hg(a) CMH cm Hg(a) INH inch Hg(a) TOR Torr XXX Other (Please specify)			
DIAL SIZE				RANGE			
100 100 mm 150 150 mm				Please select from Table			
CASE							
S4S SS 304 S6S SS 316							
BOURDON							
S6S SS 316 S6L SS 316L S6T SS 316Ti							
SOCKET							
S6S SS 316 S6L SS 316L S6T SS 316Ti							
MOVEMENT							
S4S SS 304 S6S SS 316							
CONNECTION							
Conn	Code	Size	Code	Type	Code	Male/ Female	Code
Thread	T	1/4"	06	NPS	NS	Male	M
		3/8"	10	NPT	NT	Female	F
		1/2"	15	BSP	BP		
		3/4"	20	BSPT	BT		
		1"	25	JIS-PF	PF		
		M20	M20	JIS-PT	PT		
				Gas	GS		
				R	RR		
				Rp	RP		
				Pitch 1.5	C		

e.g. For 1/2"NPT(M), Code: **T15NTM**
 For M20x1.5 (F), Code: **TM20CF**

Sample Model Code: APBR-V-150-S4S-S6S-S6S-S4S-T15NTM-(0-1)-KSC-L