

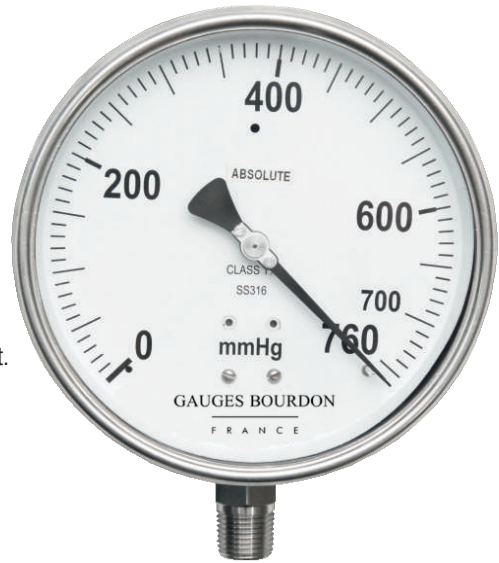
# Absolute Pressure Gauges: Bellow Type

MODEL : APBL

## 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.

For this purpose we have developed element of Twin Bellows, one of the same is totally evacuated and sealed, which shall be the reference point for calibration i.e. Absolute Zero. These twin bellows are connected through a special type of movement. Any pressure applied in the second bellow is compared to the reference bellow (sealed bellow) 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
- Bellow in SS316 as standard providing better mechanical properties guaranteeing repeatability and accuracy
- Accuracy  $\pm 1\%$  FSD

## Specifications

<b>Ref. Standard</b>	EN-837
<b>Dial</b>	150 mm in Aluminium, white background, black markings
<b>Case</b>	SS304 / SS316 with bayonet bezel
<b>Protection</b>	IP-68 (IS:13947 part I / IEC:60529)
<b>Window</b>	Safety glass (Shatter proof / Toughened glass)
<b>Sensor</b>	Bellow in SS316 / SS316L
<b>Socket</b>	22mm Square in SS316 / SS316L
<b>Movement</b>	SS304, SS316
<b>Connection</b>	1/2" NPT (M) as standard (other optional)
<b>Accuracy</b>	$\pm 1\%$ FSD
<b>Over range</b>	As per EN 837
<b>Zero adjustment</b>	Micrometer Pointer
<b>Temperature suitability</b>	Ambient (-)20°C to 60°C, Media 100°C
<b>Temperature Effect</b>	Within $\pm 0.4\%$ FSD/10°C, when temperature changes from reference temperature of 20°C (as per EN-837 standard)
<b>Optional</b>	NACE compliance CE Atex

## Ranges

0 to 0.6 Kg/cm<sup>2</sup>(a)  
0 to 1 kg/cm<sup>2</sup>(a)  
0 to 1.6 kg/cm<sup>2</sup>(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

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		

BASIC MODEL CODE	
APBL	Absolute PG, Bellow Sensing

MOUNTING	
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

DIAL SIZE	
150	150 mm

CASE	
S4S	SS 304
S6S	SS 316

BELLOW	
S6S	SS 316
S6L	SS 316L

SOCKET	
S6S	SS 316
S6L	SS 316L

MOVEMENT	
S4S	SS 304
S6S	SS 316

OPTION	
ATX	Atex
BGS	Built In Gauge Saver
BOB	Blow out disc at back
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

UNIT	
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)

RANGE	
Please select from Table	

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

Sample Model Code: **APBL-V-150-S4S-S6S-S6S-S4S-T15NTM-(0-1)-BAR-L**