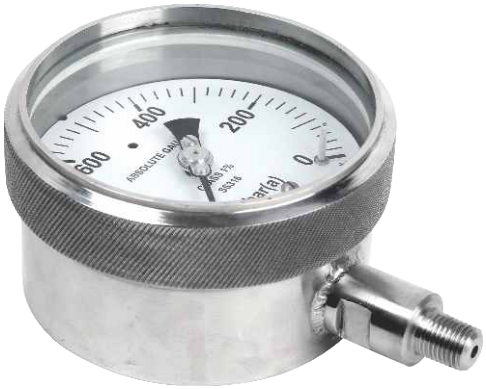
Why Absolute Pressure Gauge?

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

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 ±0.4% FSD/10°C, when temperature changes from reference temperature of 20°C (as per EN-837 standard)
Optional	NACE compliance CE

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

34

Ordering Information

MODEL

BASIC MODEL CODE

APBR	Absolute PG, Bourdon 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

100	100 mm	**150**	150 mm

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**

OPTION

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

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

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

Absolute Pr. Gauges - Diaphragm Type

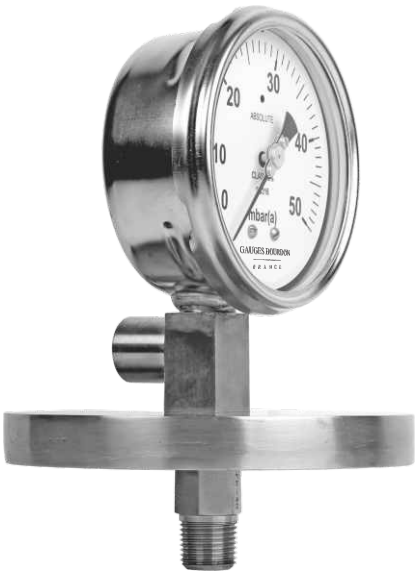
Model : **APDS**

GAUGES BOURDON
FRANCE

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, the Gauge is provided with 2 Chambers separated by a Diaphragm. One chamber is totally evacuated and sealed, which acts as the reference point for calibration i.e. Absolute Zero. The process pressure is applied to the pressure chamber at the other side of the Diaphragm. Any pressure applied inside the pressure chamber is compared to the sealed chamber 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
- Diaphragm in SS316 as standard providing better mechanical properties guaranteeing repeatability and accuracy
- Accuracy ±1.6% FSD

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	Diaphragm in SS316 / SS316L
Wetted Parts	SS316 / SS316L
Movement	SS304, SS316
Connection	1/2" NPT (M) as standard (other optional)
Accuracy	±1.6% 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 ±0.8% FSD/10°C, when temperature changes from reference temperature of 20°C (as per EN-837 standard)
Optional	NACE compliance CE

Ranges

0 to 500 mmWC(a)
0 to 600 mmWC(a)
0 to 1000 mmWC(a)
0 to 1600 mmWC(a)
0 to 2500 mmWC(a)
0 to 4000 mmWC(a)
0 to 6000 mmWC(a)
Other on request

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

Ordering Information

MODEL

BASIC MODEL CODE
APDS Absolute PG, Diaphragm Type

MOUNTING
V Bottom Entry, Local Mounting
S Bottom Entry, Surface Mounting
Y Bottom Entry, 2" Pipe Mounting

DIAL SIZE
100 100 mm **150** 150 mm

CASE
S4S SS 304
S6S SS 316

DIAPHRAGM
S6S SS 316
S6L SS 316L

PRESSURE CHAMBER
S6S SS 316
S6L SS 316L

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**

OPTION
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

Sample Model Code: APDS-V-150-S4S-S6S-S6S-S4S-T15NTM-(0-1000)-MMW-L