

MODEL : APDS

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 $\pm 1.6\%$ 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	$\pm 1.6\%$ 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 $\pm 0.8\%$ 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 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

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							
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				

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

The recommendations made in this catalogue are to be used as intended guide. No guarantee of material can be undertaken since other factors may affect the performance. We reserve the right to change the specifications mentioned in this catalogue without any notice as improvements & development is a continuous process at General. Responsibility of typographical errors is specifically disclaimed.