

Differential Pressure Gauges

All Stainless Steel, Case With Bayonet Ring

Ø 100 mm (4") and Ø 160 mm (6")

Standard (BIDPA 100/160 D) or Glycerine Filled (BIDPA 100/160 L)

Models :

BIDPA 100 / 160 D

BIDPA 100 / 160 L

APPLICATIONS

Differential pressure gauges models BIDPA are used for direct reading of low differential pressure from 0/25 mbar (0/10 "WC) and above at static pressures of 10 bar or 25 bar (150 psi or 400 psi)

NOMINAL HEAD DIAMETERS

Ø 100 mm (4") and Ø 160 mm (6")

ACCURACY CLASS

Class 2.5 according to EN 837-3 Standard (i.e. $\pm 2.5\%$ f.s.)

PRESSURE RANGES (EN / ASME 837)

From 0 / 25 mbar (10 "WC) up to 0 / 25 bar (400 psi)

PRESSURE LIMITATIONS

Max. static pressure:

PN 10 (150 psi) for ranges ≤ 250 mbar [100 "WC]

PN 25 (400 psi) for ranges $\geq 0,4$ bar [160 "WC]

overrange protected up to 10-times full scale pressure, but for one sided overpressure max. up to permissible PN (10 or 25 bar resp. 150 or 400 psi); vacuum protected

TEMPERATURE LIMITATIONS

Ambient temperature -20 to +80 °C (-4 to + 176 °F)

Medium temperature max. +100 °C (+212 °F)

PROTECTION TYPE (EN 60529 / IEC 529)

Model BIDPA (dry) = IP 54 / Model BIDPA (liquid filled) = IP 65

STANDARD CONFIGURATION

CASE AND BAYONET RING

Stainless steel AISI 304

CONNECTION

2 x 1/4 "BSP female bottom connection, connections marked with "+" HP and "-" LP direct mounting on pressure service lines

PRESSURE CHAMBERS

Stainless steel in AISI 316 L

DIAPHRAGM

Measuring ranges < 1 bar (0/15 psi): Stainless steel AISI 316 L

Measuring ranges ≥ 1 bar (0/15 psi): NiCrCo-Alloy (Duratherm)

BELLOWS

Stainless steel in AISI 316 L

MOVEMENT

Stainless steel

DIAL PLATE

Aluminum Alloy, black figures, white background

WINDOW

Laminated safety glass

POINTER

Aluminum alloy black, pointer adjustable $\pm 25\%$ of the full span through an opening at the case top

ACCESSORIES

3- or 4- spindle valve manifold,

for 3 spindle valve see page 23



SPECIAL CONFIGURATIONS

- ➔ Other connections threads upon request
- ➔ Special scales (dual ranges or flow ranges)
- ➔ Stationary red pointer, internal or external adjustment
- ➔ Installation of electrical accessories like magnetic or inductive **limit-switch contact assemblies** (see page 17)

STANDARD RANGES

psid	mBar	bar	I.W.D.
3	40	0.6	10
5	60	1.0	30
10	100	1.6	60
15	160	2.5	100
30	250	4	200
60	400	6	
100		10	
160		16	
200		25	
300			
400			

HOW TO ORDER

Please select :

- BIDPA 100 D T
 1. Model code : BIDPA
 2. Nominal head diameter
 Ø 100 mm (4") or Ø 160 mm (6")
 3. D : Dry / standard or L : Liquid filled
 4. Mounting Type : M for direct mounting
 T for 2" tube mounting
 W for wall mounting

EXAMPLE OF ORDER NUMBER

Differential Pressure Gauges Ø 100 mm
 Material : all stainless steel
 Range : 0 – 6 kg/cm²
 Bottom connection : 1/2" NPT Male
 Liquid filled, with 2" pipe mounting
 Maximal static pressure : 25 kg/cm²

Order number :

·BIDPA 100 LT, 0 - 6 kg/cm², 1/2" NPT Male

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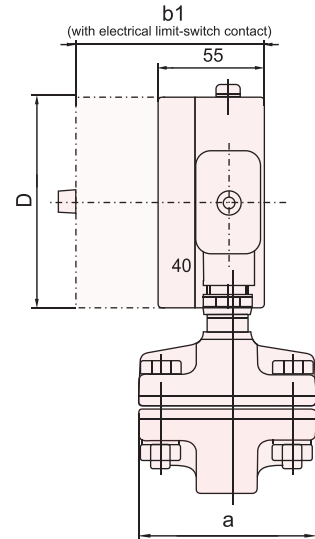
Models :

BIDPA 100 / 160 D

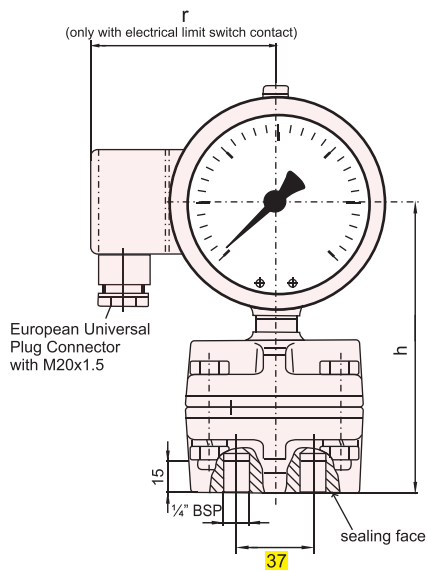
BIDPA 100 / 160 L

CASE CONFIGURATIONS AND DIMENSIONAL DATA (in mm)

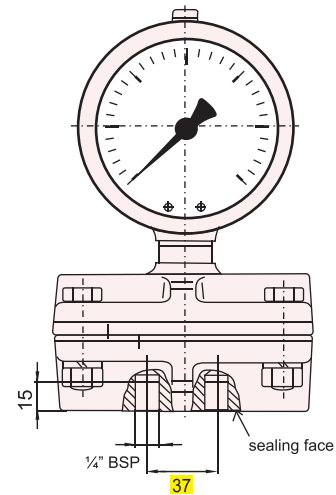
BASIC MODEL



PRESSURE RANGES 0.4 - 25 BAR



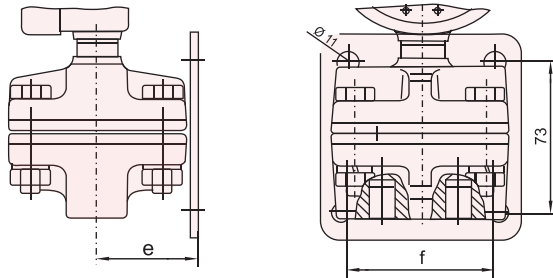
PRESSURE RANGES 25 - 250 MBAR



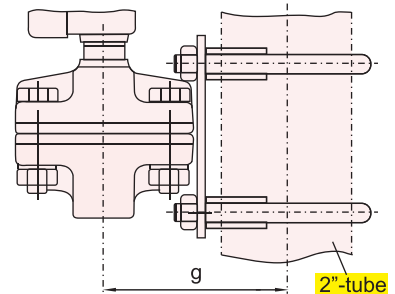
NOTE : Distance between centre to centre "HP" to "LP" = 37 mm

0.4 - 25 BAR

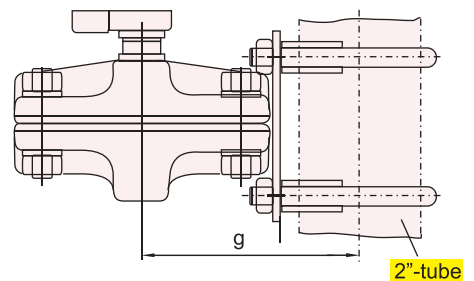
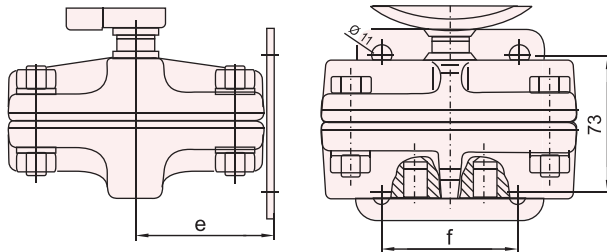
WALL MOUNTING



TUBE MOUNTING



25 - 250 MBAR



Dimensions (mm)

Case Size	Pressure Range	a	D	b1	b2	e	f	g	h±1	r
100 4"	0/25 ... 0/250 mbar 0/10 ... 0/100 "WC	136	101	100	116	76	73	114	140	86
	0/0.4 ... 0/25 bar 0/160 "WC ... 0/400 psi	90				51		91		
160 6"	0/25 ... 0/250 mbar 0/10 ... 0/100 "WC	136	161	102	118	74	73	114	170	170
	0/0.4 ... 0/25 bar 0/160 "WC ... 0/400 psi	90				51		91		