

SINGLE DIAPHRAGM DIFFERENTIAL PRESSURE GAUGE

MODEL
M2.01



PRODUCT DESCRIPTION

Differential pressure gauges with single diaphragm instruments are used to check differential pressures of liquids which do not have high viscosity and do not crystallize. It is available in dry & liquid versions the sensing element is diaphragm.



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KEY FEATURES

- All SS measuring system
- Case & measuring system in SS
- Dry & Liquid Filled Version
- All welded Stainless steel rugged design
- CE & ATEX approved

SPECIFICATIONS

Design Standard	: According to EN 837-3
Sensing Element	: Single Diaphragm
Accuracy	: $\pm 1.6\%$ of Span (Standard)
Dial Size	: 100mm (4"), 150mm (6")
Range	: Pressure: -25mbar...0...2.5 bar (Other custom ranges on request)
Process Conn. Size & Type	: $\frac{1}{4}$ " NPT (F)x 2 Nos (Other sizes on request)
Mounting	: Direct bottom Connection
Ambient Temperature	: -25°C to 65°C
Process Temperature	: Max. 100 °C
Static Pressure	: 25 to 50mbar - Static pressure 2.5 bar 0.6 bar to 16 bar static 10 times of its calibration value
Ingress Protection	: IP68

PRESSURE LIMITS

Steady Pressure	: Up to FSD
Fluctuating Pressure	: 90% x FSD
Over Range Pressure	: 130% FSD

SPECIFICATIONS

Calibration Certificate	: Gauges are factory calibrated to full range by default 5 Point Calibration Cert.
Material Certification	: Available as per EN10204 3.1 for wetted parts (Optional) Available as per EN10204 2.1 for non-wetted parts (Optional)
Approvals	: ATEX: Conformity acc. to RL 2014/34/EU II 2 GD Ex h T6 (Optional)

APPLICATION

- Pharmaceutical & Petrochemical
- Food & Beverages
- Pulp and paper
- Fertilizer, cement, sugar
- Allied process industries
- Liquid & Gaseous mediums

MATERIAL OF CONSTRUCTION

Case & Bezel Ring	: SS 304 (Optional SS 316)
Process Connection	: Wetted: SS 316
Diaphragm	: SS 316L
Movement	: SS 304 SS (Optional SS 316)
Seal Chamber	: SS 304
Pointer	: Aluminum, Black colored Micrometer zero adjustable
Dial	: Aluminum, Black graduation on white background
Window	: Shatter proof safety (Optional: Toughened glass)
Window gasket & Blowout disk	: Neoprene
Scale Amplitude	: 180 to 270 (Depends on Range)
Nuts & Bolts	: SS 304

CASE FILLING (OPTIONAL)

The gauges can be filled with different kind of fill fluids. Available fill fluids are:

- Glycerin fluid (99.7%)
- Silicon fluid
- Other fill fluids can be offered on request

TEMPERATURE LIMITS

Version	Ambient	Process
Dry	-40 to 65 °C	Max. 200 °C
Glycerin filled	Max. 65 °C	Max. 65 °C
Silicon filled	Max. 165 °C	Max. 165 °C

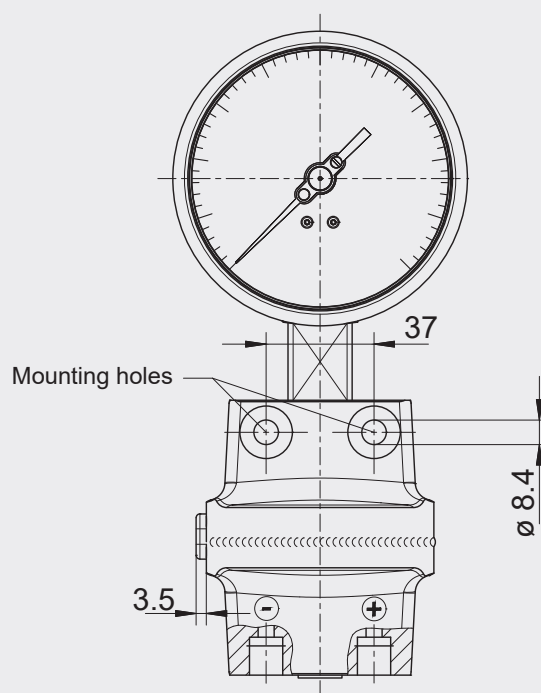
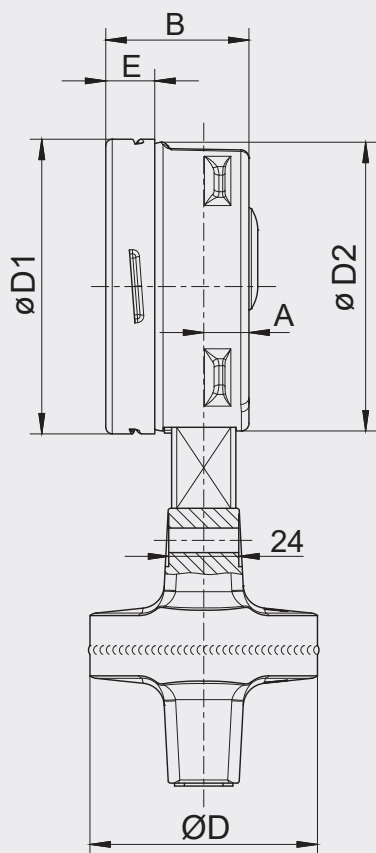


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DIMENSIONAL DRAWINGS

Single Diaphragm DPG Bottom Connection - B



NS	Dimension in mm					
	A	B	Ø D1	Ø D2	Ø D	E
100	23.5	59	101	99	140	17.5
160	23.5	59	161	159	140	17.5

Important Notes: Above drawings are not to scale. All Dimension are in mm

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TABLE-1 PRESSURE RANGE

Code	mmWC	Code	kPa	Code	mbar	Code	bar
WB025	0-250	KP025	0-2.5	MB025	0-25	BR01	0...1
WB040	0-400	KP040	0-4	MB040	0-40	BR015	0...1.6
WB060	0-600	KP060	0-6	MB060	0-60	BR024	0...2.5
WB100	0-1000	KP100	0-10	MB100	0-100		
WB160	0-1600	KP160	0-16	MB160	0-160		
WB250	0-2500	KP250	0-25	MB250	0-250		
WB400	0-4000	KP400	0-40	MB400	0-400		
WB600	0-6000	KP600	0-60	MB600	0-600		

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MODEL CODING & ORDERING INFORMATION

DESCRIPTION	CODE	M2.01	04	2	B	14BF	S4	S4	MB060	X20
Model										
Single Diaphragm Differential Pressure Gauge	M2.01	M2.01								
Dial Size										
100 mm (4")	04		04							
160 mm (6")	06									
Version										
Dry (But Fillable)	1									
Glycerin Filled	2			2						
Sillicon Oil Filled	3									
Type of Mounting / Connection Orientation										
Direct Bottom Connection	B				B					
Process Connection (Size and Type)										
1/4" BSP (F)	14BF					14BF				
1/4" NPT (F)	14NF									
3/8" BSP (F)	38BF									
3/8" NPT (F)	38NF									
(Note: For 1/2" connections possible in tubing only)										
Chamber Material										
SS 304	S4						S4			
SS 316	S6									
SS 316L	SL									
SS 316 / SS 316L	DC									
Monel 400	M4									
Hast C-276	HC									
Diaphragm Material										
SS 304	S4							S4		
SS 316	S6									
SS 316L	SL									
Monel 400	M4									
Hast C-276	HC									
Range										
To be selected from Table 1	XXXXX								MB060	
(Other Custom Ranges available on request)										
Other Options										
Window in Toughened Glass	EXO									
Tag no Marking on Dial	XTM									
Wetted Parts Complied To NACE	X20									X20
Custom Dial Design / Private Labeling	X29									
Accuracy Requirement -1.2%	XX5									
Quality Specific Requirement										
ATEX Conformity acc.to RL 2014/34/EU II 2 GD Ex h T6	XAT									
IBR Certification	X18									
Certificate for Oxygen Service	X21									
IGC Certificate	X79									
Leak Test Certificates	XLC									
DP Test for Socket and Case Welding	XDP									
Default Certification	S6									
Callibration Certificates										
MTC for Wetted Parts										

SAMPLE ORDERING CODE:

M2.04-2-B-14BF-S4-S4-MB060-X20

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and material specified may be replaced by others without prior notice.

