

SCHAFFER DIAPHRAGM **PRESSURE GAUGE**

MODEL M1.05



PRODUCT DESCRIPTION

The schaffer diaphragm gauge is used for measurement of gas or liquids, and is well suited for use on corrosive, polluted or highly viscous mediums. These instruments are more reliable and easy to protect against overpressure than the Bourdon tube type The measuring element consists of one circular diaphragm clamped between a pair of flanges. It have a Diaphragm which displacement is transferred via a link to the movement.















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KEY FEATURES

- Stainless steel case & measuring system
- Flanged or Screw connection
- Optional ATEX approved II 2 GD Ex h T6
- Standard followed in general EN 837-3

SPECIFICATIONS

Design Standard: : According to EN 837-3

Sensing Element: Diaphragm Accuracy: : ± 1.6 % of FS

Dial Size: 100mm (4'),150mm (6")

Range: -6000 to 0 & 0 to 6000 mmWC

Process Conn.

Location:

Case

Direct Bottom

Process Conn. Size & Type

: 1/2" NPT Male / 1/2" BSP Male

Weld Joints:

TIG Argon Arc Welding 304 SS (Bayonet Type)

Ingress Protection : IP68

Approvals ATEX: Conformity acc. to RL

2014/34/EU Article 13 paragraph 1 for mechanical equipment in potential hazardous areas II 2 GD Ex h T6

(Optional)

MATERIAL OF CONSTRUCTION

Case & Bezel Ring : SS 304 (Optional SS 316)

Process Connection : 1/2" NPT (M) Diaphragm Wetted: SS 316L

Movement : SS 304

Pointer Aluminum, Black colored

Micrometer zero adjustable

•••••••

Dial Aluminum, Black graduation

on white background

Shatter proof safety Window

Window gasket & Blowout disk

Neoprene

APPLICATION

- Liquid & gaseous medium
- Corrosive/hazardous
- Oil & gas application
- Food & Beverages
- Nuclear power plants
- Chemical/Petrochemical ,Power stations

PRESSURE LIMITS

Operating pressure 75% of scale value 125% of scale value °C Over pressure

TEMPERATURE LIMITS

-25 °C to +65 °C Ambient temperature Process temperature Max 100 °C

CERTIFICATION & APPROVALS

Calibration

Certificate

Gauges are factory calibrated to full range by default 5/10-Point Calibration Cert. (Optional)

Material Certification Available as per EN10204 3.1 for

wetted parts (Optional)

Available as per EN10204 2.1 for non-wetted parts (Optional)

NACE

Compliance

Available as per MR 01 75/ MR 01 03 (ISO 15156) for wetted parts

(Optional)

Approvals ATEX: Conformity acc. to RL

2014/34/EU II 2 GD Ex h T6

(Optional)

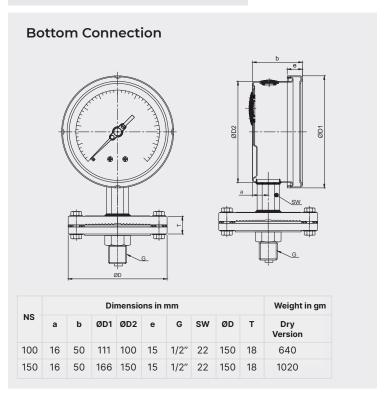




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DIMENSIONAL DRAWINGS



Important Notes:

Above drawings are not to scale.

All Dimension are in mm

NS = Nominal size

Weights mentioned are approximate and for standard product.

Weight can be different after selection of options.



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TABLE-1 PRESSURE RANGE

Code	mmWC	Code	mBar			
CB36	0250	MB36	025			
CB38	0400	MB 38	040			
CB40	0600	MB 40	060			
CB42	01000	MB 42	0100			
CB45	01600	MB 45	0160			
CB50	02500	MB 50	0250			
CB54	04000	MB 54	0400			
BR01	06000	MB 01	0600			
BR04	-60000	MB 04	-6000			
BR31	-40000	MB 31	-4000			
BR35	-25000	MB 35	-2500			
BR36	-16000	MB 36	-1600			
BR38	-10000	MB 38	-1000			
BR40	-6000	MB 40	-600			
BR42	-4000	MB 42	-400			
BR45	-2500	MB 45	-250			



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MODEL CODING & ORDERING INFORMATION

DESCRIPTION	CODE	M1.05	4	1	В	12BM	XXX	S4	нс	SL	X16
Model											
Schaffer Diaphragm Pressure Gauge	M1.05	M1.05									
Dial Size 100 mm (4")	4		4								
150mm (4")	6		4								
Version	O										
Dry	1			1							
Type of Mounting											
Direct, Bottom connection	В				В						
Process Connection (Size & Type)											
1/4" BSP (M)	14BM										
3/8" BSP (M)	38BM										
1/2" BSP (M)	12BM					12BM					
1/4" NPT (M)	14NM										
3/8" NPT (M)	38NM										
½" NPT (M)	12NM										
M20 × 1.5 (M)	M20M										
Range To be selected from Table 1	XXX						XXX				
(Other custom ranges available on request)	^^^						^^^				
Top Chamber											
SS 304	S4							S4			
SS 316	S6										
SS 316L	SL										
Diaphragm											
Hast C-276	HC								HC		
Monel 400	M4										
SS 316L	SL										
Bottom Chamber											
SS 316	S6										
SS 316L	SL									SL	
Hast C-276	HC										
Monel 400 Other Options	M4										
Window in Toughened glass	XWT										
Tag number marking on Dial	XTM										
ATEX Conformity acc. to RL 2014/34/EU II 2 GD Ex h T6	XAT										
CE Marking	XCE										
Movement in SS 316	X06										
Over range protection 150% FSD	X10										
Calibration Certificate	X16										X16
Material test certificate	X17										
Wetted parts complied to NACE	X20										
Certificate for Oxygen Service	X21										
Certificate of De-greasing	X25										
Custom Dial Design / Private labeling	X29										
Case & Bezel ring in SS 316	X31										
PTFE lining on flange or screwed connection	X32										
PTPE protection on diaphragm	X33										
PTPE coating on diaphragm	X34										
PTPE gasket up to 200°C	X35										
Enclosure Protection - IP65	165										

SAMPLE ORDERING CODE:

M1.05-4.1.B.12BM.XXX.S4.HC.SL.X16

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.

