Pressure gauge per EN 837-1 with mounted diaphragm seal
With flange connection, internal diaphragm
Model DSS26M

WIKA data sheet DS 95.09

Applications

- For aggressive, highly viscous, crystallising or hot media
- Process industry
- For small flange process connections

Special features

- Open flange with internal, all welded diaphragm with diaphragm bed
- No sealings and clamping elements
- Compact design

Diaphragm seal system, model DSS26M

Description

Diaphragm seal systems are used to protect the pressure measuring instrument from aggressive, adhesive, crystallising, corrosive, highly viscous, environmentally hazardous or toxic media. The diaphragm made of stainless steel provides for the separation from the medium. The pressure is transmitted to the measuring instrument via the system fill fluid which is inside the diaphragm seal system.

Due to its design – with open flange connection and internal diaphragm with diaphragm bed – the DSS26M is suitable for all currently used standard flanges and is mounted to small process connections for pressure measurement.

Mounting of the diaphragm seal to the measuring instrument is made via direct mounting as standard.

The DSS26M is particularly well suited for aggressive, highly viscous, crystallising or hot media. The measuring system is successfully used worldwide in the chemical and petrochemical industries with high measuring requirements.
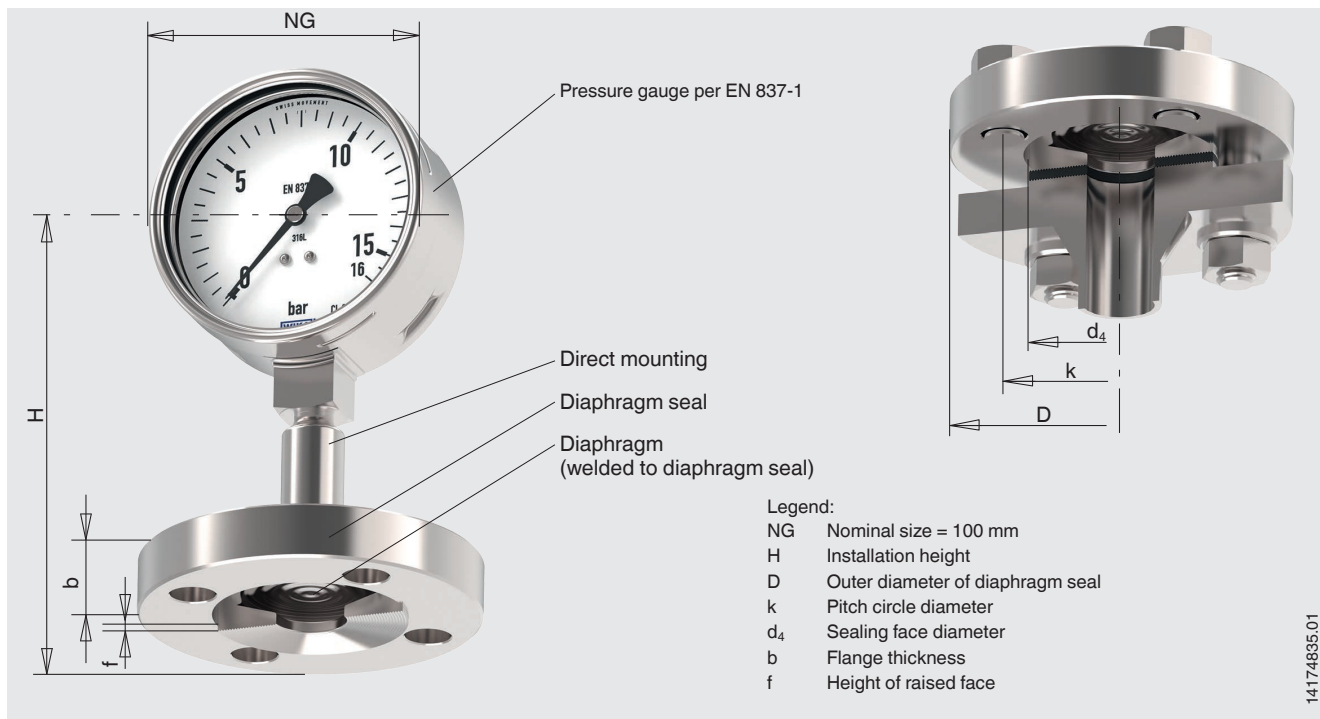
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Specifications

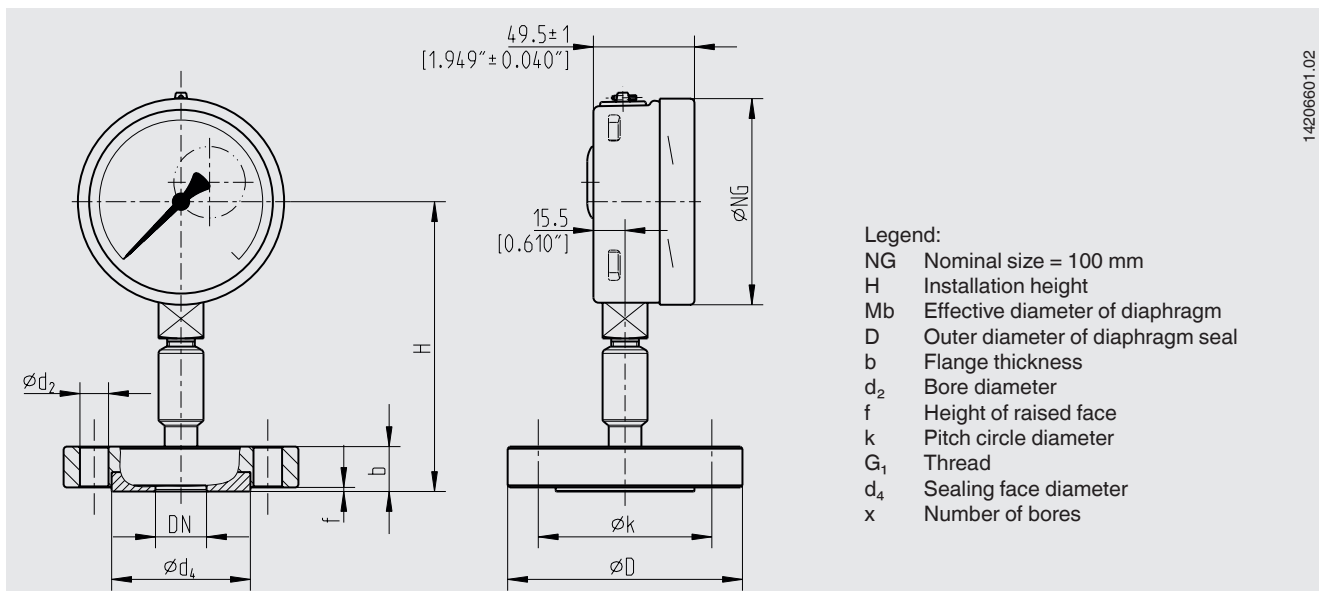| Model DSS26M	
Design	Pressure gauge with Bourdon tube per EN 837-1, diaphragm seal with flange connection, internal diaphragm
Nominal size (NG)	100
Accuracy class	1.0
Pressure limitation	Steady: Full scale value Fluctuating: 0.9 x full scale value Short time: 1.3 x full scale value
Permissible temperature range Medium Ambient Storage	 -10 ... +150 °C [14 ... 302 °F] 10 ... 40 °C [50 ... 104 °F] 10 ... 60 °C [50 ... 140 °F]
Ingress protection	IP65 per IEC/EN 60529
Material wetted non-wetted	 Diaphragm seal: Stainless steel 1.4404 [316L] Diaphragm: Stainless steel 1.4435 [316L] Case: Stainless steel 1.4301 [304] Window: Laminated safety glass Dial, pointer: Aluminium
Level of cleanliness of wetted parts	Oil and grease free per ASTM G93-03 level F and ISO 15001 (< 1,000 mg/m^2)
System fill fluid	Silicone oil KN 2 for general applications

Scale ranges in bar [psi]

Gauge pressure				
0 ... 6 [0 ... 100]	0 ... 10 [0 ... 160]	0 ... 16 [0 ... 200]	0 ... 25 [0 ... 300]	0 ... 40 [0 ... 600]

Vacuum and +/- scale range		
-1 ... +5 [-30 inHg ... +70]	-1 ... +9 [-30 inHg ... +130]	-1 ... +10 [-30 inHg ... +145]

Installation example, model DSS26M

Pressure gauge per EN 837-1

Direct mounting

Diaphragm seal

Diaphragm
(welded to diaphragm seal)

Legend:
NG Nominal size = 100 mm
H Installation height
D Outer diameter of diaphragm seal
k Pitch circle diameter
d_4 Sealing face diameter
b Flange thickness
f Height of raised face

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Dimensions in mm [in]

Legend:
NG   Nominal size = 100 mm
H   Installation height
Mb   Effective diameter of diaphragm
D   Outer diameter of diaphragm seal
b   Flange thickness
d_2 Bore diameter
f   Height of raised face
k   Pitch circle diameter
G_1 Thread
d_4 Sealing face diameter
x   Number of bores

Type of process connection: Flange connection following EN 1092-1
Sealing face: Form B1

DN	PN	Dimensions in mm [in]									x
		NG	H	Mb	D	b	f	k	d_2	d_4	
25	10/40	100 [3,937]	142 [5,592]	52 [2,047]	115 [4,528]	22 [0,866]	2 [0,079]	85 [3,346]	14 [0,551]	68 [2,677]	4

Type of process connection: Flange connection following ASME B16.5
Sealing face: RF 125 ... 250 AA

DN	Class	Dimensions in mm [in]									x
		NG	H	Mb	D	b	f	k	d_2	d_4	
½"	150	100 [3,937]	142 [5,590]	32 [1,26]	90 [3,543]	22 [0,866]	2 [0,079]	60,3 [2,374]	16 [0,63]	34,9 [1,374]	4
	300			40 [1,574]	95 [3,740]			66,7 [2,626]			
1"	150			52 [2,047]	110 [4,330]			79,4 [3,126]		50,8 [2,0]	
	300				125 [4,921]			88,9 [3,5]	19 [0,748]		

Certificates (option)

3.1 inspection certificate per EN 10204 (e.g. material proof
for wetted metallic parts, calibration certificate)

Approvals and certificates, see website

Ordering information

Scale range / Process connection (type of process connection, pipe standard, pipe dimension) / Material of wetted parts /
Certificates

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