

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.

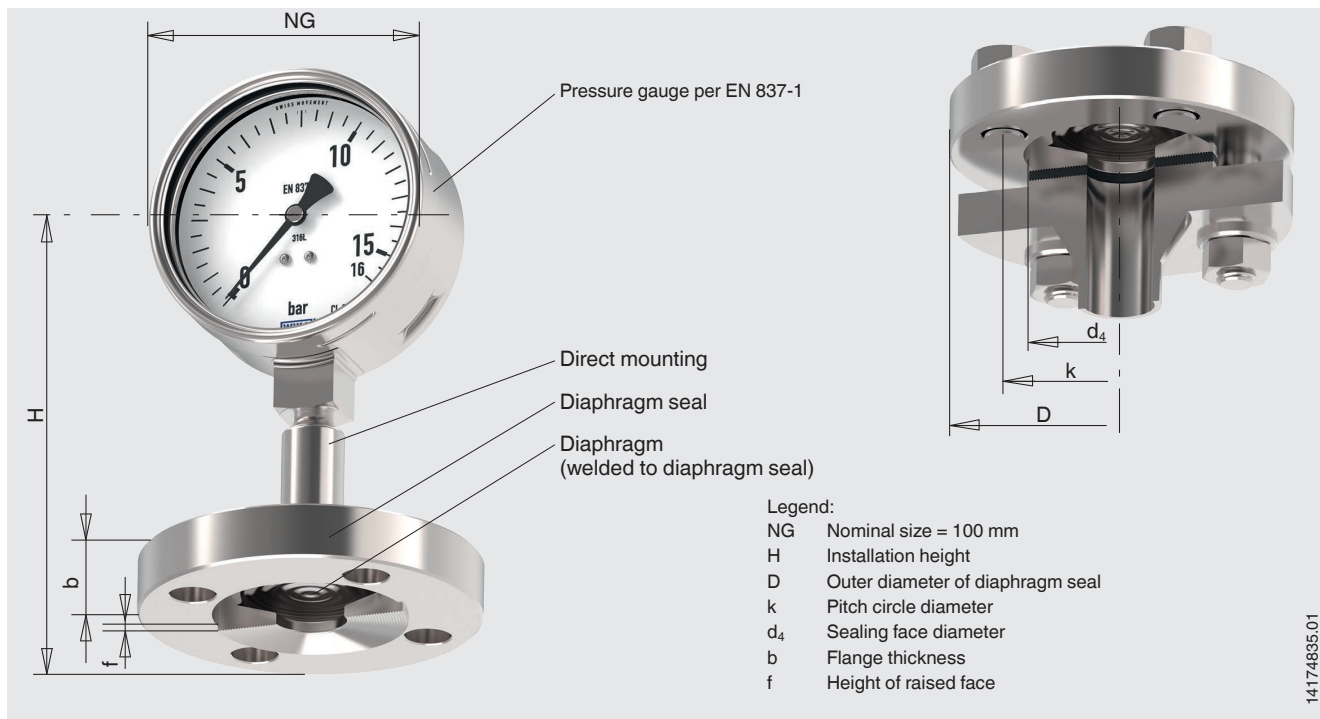
Specifications

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: -10 ... +150 °C [14 ... 302 °F] Ambient: 10 ... 40 °C [50 ... 104 °F] Storage: 10 ... 60 °C [50 ... 140 °F]
Ingress protection	IP65 per IEC/EN 60529
Material	wetted: Diaphragm seal: Stainless steel 1.4404 [316L] Diaphragm: Stainless steel 1.4435 [316L] non-wetted: 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

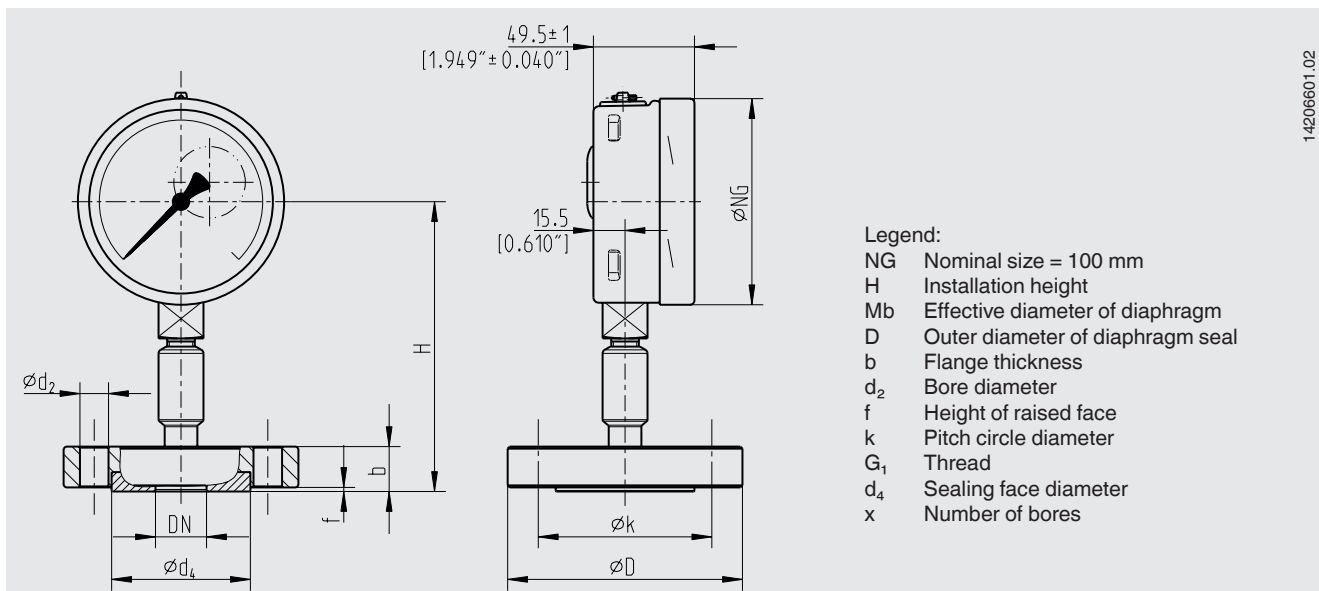
Scale ranges in bar [psi]

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



Dimensions in mm [in]



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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	100 [3,937]	142 [5,590]	52 [2,047]	110 [4,330]	22 [0,866]	2 [0,079]	79,4 [3,126]	16 [0,63]	50,8 [2,0]	4
	300				125 [4,921]						

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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Your WIKA Sales Partner



ICS Schneider Messtechnik GmbH
Briesestrasse 59
D-16562 Hohen Neuendorf / OT Bergfelde
Tel.: +49 3303 5040-66
Fax: +49 3303 5040-68
E-Mail: info@ics-schneider.de



WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg/Germany
Tel. +49 9372 132-0
Fax +49 9372 132-406
info@wika.de
www.wika.de