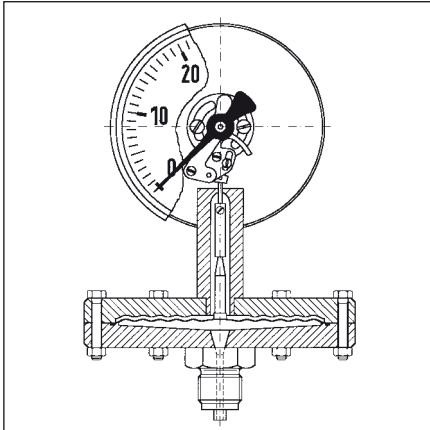


Standard diaphragm pressure gauges EN 837-3



Application

For non-corrosive gaseous and liquid media. With open connecting flange also suitable for viscous and polluted media.

! When measuring gas or vapour, the instruments must be used in accordance with the safety recommendations of EN 837-2 (see appendix).

Type

D 4

Nominal size

100 – 160

Accuracy class (EN 837-3/6)

1.6

Ranges (EN 837-3/5)

0/10 to 0/250 mbar (flange Ø 160)

0/0.4 to 0/25 bar (flange Ø 100)

Application area

Static load:

full scale value

Dynamic load:

0.9 x full scale value

Overpressure safety

1.3 x full scale value

≥ 0.6 bar overpressure safety

5 x FSD, however, 40 bar max.

Operating temperature range

Medium: $T_{max} = +100\text{ °C}$

Ambient: $T_{min} = -20\text{ °C}$

$T_{max} = +60\text{ °C}$

Temperature performance

Indication error when the temperature of the measuring element deviates from 20 °C:

rising temp. approx. $\pm 0.8\text{ ‰}/10\text{ K}$

falling temp. approx. $\pm 0.8\text{ ‰}/10\text{ K}$

percentage of full scale value

Protection

IP 54 (EN 60529)

Standard version

Connection

Steel, bottom

G $\frac{1}{2}$ B – spanner size 22

(EN 837-3/7.3)

Lower flange

Steel

Upper flange

Stainless steel

Measuring element

Diaphragm,

Measuring flange Ø 100:

up to 1.6 bar Duratherm,

≥ 2.5 steel

Measuring flange Ø 160:

Stainless steel 316 Ti or 316 L

Sealing gasket to pressurised area

„Perbunan“ nitrile rubber

Movement

Brass

Dial

Aluminium, white

Dial marking black

Pointer

Aluminium, black

Housing

Stainless steel 304

with blow-out

Bayonet type bezel

Stainless steel 304

Front glass

Instrument glass

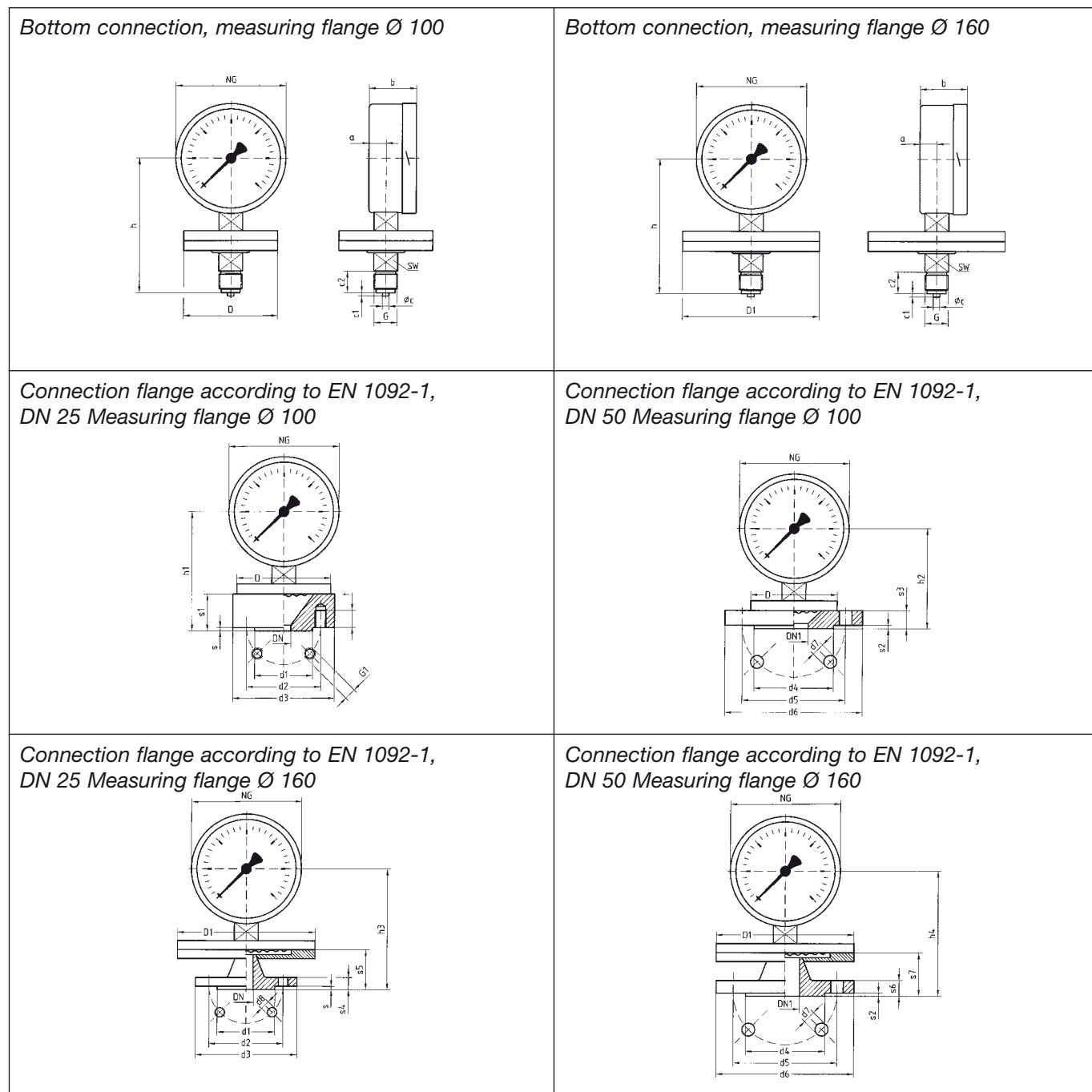
Options

- Safety housing
- Overpressure safety 10 x FSD
flange Ø 100 up to 40 bar max.,
flange Ø 160 up to 2.5 bar max.)
- Glycerine filling (≥ 40 mbar,
< 250 mbar accuracy class 2.5)
- Wetted parts with special coating
- Open connection flanges
according to EN/ANSI

Standard diaphragm pressure gauges

Type D 4 – NG 100/160

Housing types and dimensions



Dimensions (mm)

Nominal size (NG)	a	b	Øc	c1	c2	d1	d2	d3	d4	d5	d6	d7	d8	D	D1	DN	DN1	G	G1	h	h1
100	20	55	6	3	20	68	85	115	102	125	165	4x18	4x14	100	160	25	50	G1/2B	4xM12	127	111
160	20	55	6	3	20	68	85	115	102	125	165	4x18	4x14	100	160	25	50	G1/2B	4xM12	156	141
Nominal size (NG)	h2	h3	h4	s	s1	s2	s3	s4	s5	s6	s7	t	SW								
100	101	129	137	2	30	3	20	18	48	20	56	12	22								
160	131	159	167	2	30	3	20	18	48	20	56	12	22								