

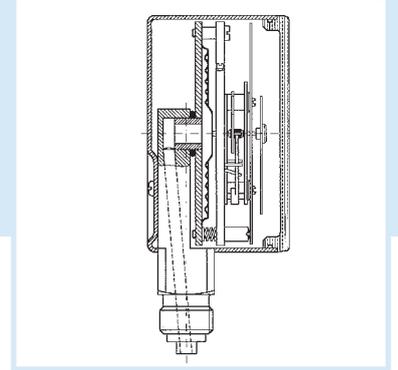
Standard capsule pressure gauges



EN 837-3



- With zero correction
- Ideal for low pressure ranges
- Optional overpressure or underpressure safety 10 x FSD
- GOSSTANDART-certified



Application For gaseous, dry media which do not attack copper alloys.
! For measuring gas or vapour, these gauges must be used in accordance with the table "Selection Criteria as per EN 837-2" (see appendix)!

Technical specifications

Types

D2 / D3

Nominal size

63 – 80 – 100

Accuracy class (EN 837-3/6)

1.6

Ranges (EN 837-3/5)

0/25 to 0/1000 mbar and all corresponding vacuum and compound ranges with overpressure protection

Application area

Static load: full scale value
Dynamic load: 0.9 x full scale value
Overload safety: 1.3 x full scale value

Operating temperature range

Medium: $T_{max} = +60\text{ °C}$

Ambient: $T_{min} = -20\text{ °C}$

$T_{max} = +60\text{ °C}$

Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:
rising temperature approx. $\pm 0.6\text{ %}/10\text{ K}$
falling temperature approx. $\pm 0.6\text{ %}/10\text{ K}$
of full scale value

Degree of protection

NG 63-80: IP 32 (EN 60529)

NG 100: IP 44 (EN 60529)

Standard version

Connection

Brass, bottom or centre back
NG 63 G $\frac{1}{4}$ B – spanner size SW 14
NG 80 - 100 G $\frac{1}{2}$ B – spanner size SW 22
(EN 837-3/7.3)

Measuring element

Capsule element, CuBe alloy

Movement

Brass

Zero correction

From the front

Seal

NBR (Perbunan)

Dial

Aluminium, white
Dial marking black

Pointer

Aluminium, black

Housing

D 2 – black, sheet steel
D 3 – stainless steel 304

Window

Clip-in plastic

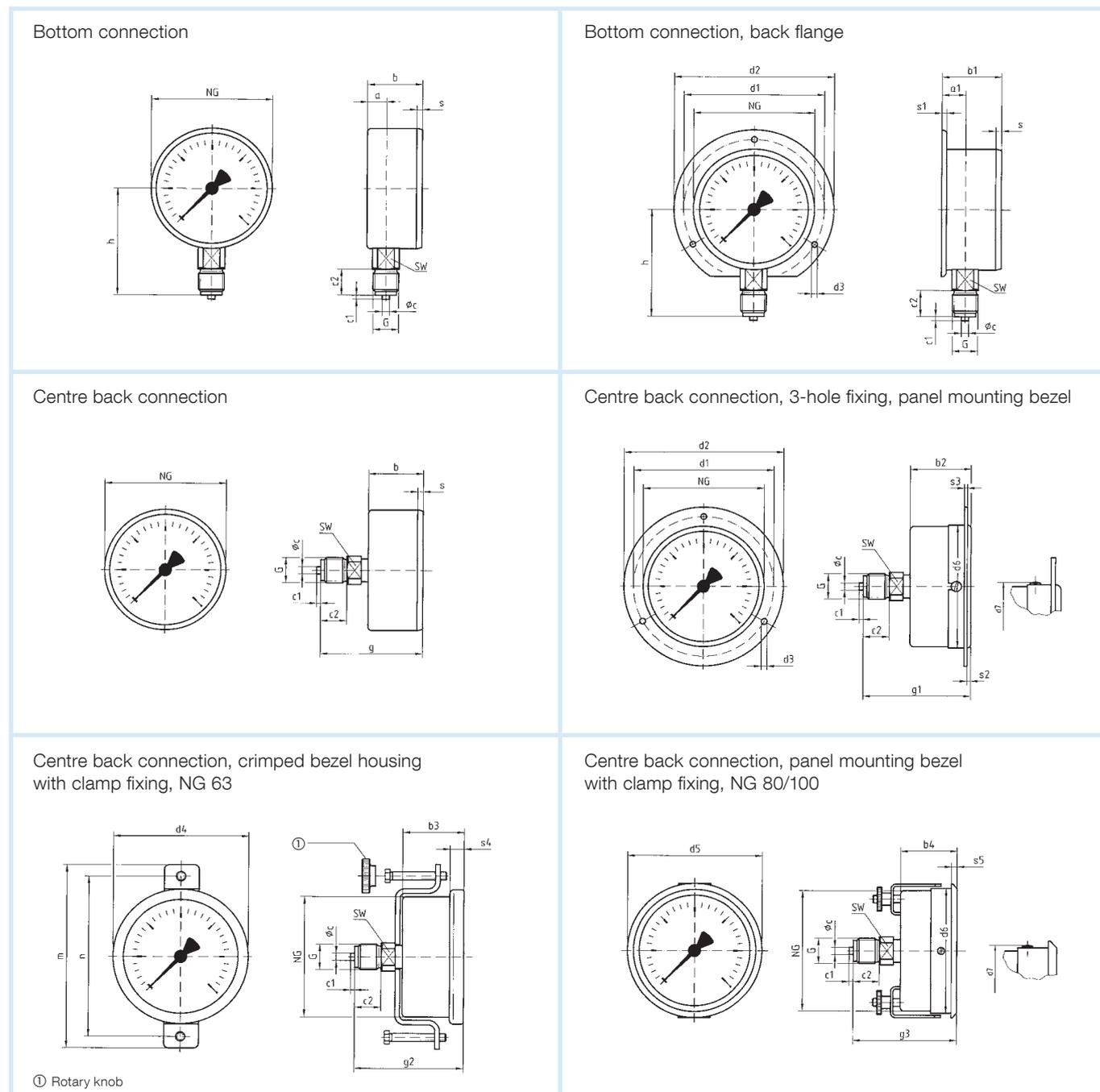
Options

- Back flange
- Panel mounting bezel
- 3-hole fixing, panel mounting bezel
- Measuring system stainless steel (NG 100)
- Damping screw
- Reference pointer
- Special scales
- Other process connections

Standard capsule pressure gauges

Type D 2/D 3 – NG 63/80/100

Housing types and dimensions



Dimensions (mm)

Nominal size (NG)	a	a1	b	b1	b2	b3	b4	ϕ_c	c1	c2	d1*	d2	d3*	d4	d5	d6	d7	G	g	g1	g2
63	9.5	12	33.7	36.2	35.7	30.5	-	5	2	13	75	85	3.5	68	68	64	66	G $\frac{1}{4}$ B	56.7	58.7	53.5
80	14.8	17.8	43.3	46.3	44.6	-	46.5	6	3	20	95	110	4.8	-	86	81	83	G $\frac{1}{2}$ B	75.3	76.6	-
100	15.6	19.1	44	47.5	45.6	-	47	6	3	20	116	132	4.8	-	107	101	105	G $\frac{1}{2}$ B	76	77.6	-
Nominal size (NG)	g3	h	m	n	s	s1	s2	s3	s4	s5	SW										
63	-	52.7	94	82	3.7	5.5	3	2	7	4	14										
80	78	69	-	-	3.8	5.5	3.5	2	-	4.5	22										
100	79	87	-	-	3.5	5.5	3.5	2	-	4.5	22										

* Dimensions for NG 100 as per DIN 16014.

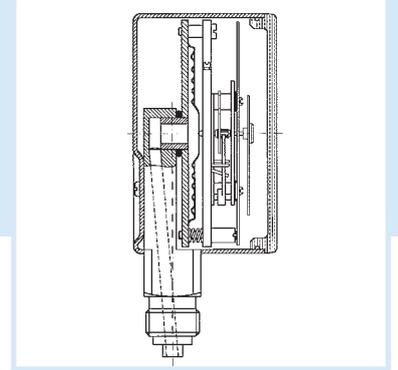
Standard capsule pressure gauges



EN 837-3



- With zero correction
- Optional overpressure or underpressure safety 10 x FSD
- Extremely low measuring range from 0/6 mbar
- GOSSTANDART-certified



Application For gaseous, dry media which do not attack copper alloys.
! For measuring gas or vapour, these gauges must be used in accordance with the table "Selection Criteria as per EN 837-2" (see appendix)!

Technical specifications

Type

D 4

Nominal size

63 – 100 – 160

Accuracy class (EN 837-3/6)

1.6

Ranges (EN 837-3/5)

NG 63-100 0/25 to 0/1000 mbar
NG 160 0/6 to 0/1000 mbar
and all corresponding vacuum and compound ranges with overpressure protection

Application area

Static load: full scale value
Dynamic load: 0.9 x full scale value
Overload safety: 1.3 x full scale value

Operating temperature range

Medium: $T_{max} = +60\text{ °C}$

Ambient: $T_{min} = -20\text{ °C}$

$T_{max} = +60\text{ °C}$

Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of +20 °C:
rising temperature approx. $\pm 0.6\text{ \%/10 K}$
falling temperature approx. $\pm 0.6\text{ \%/10 K}$
of full scale value

Degree of protection

NG 63-80: IP 32 (EN 60529)

NG 100: IP 44 (EN 60529)

Standard version

Connection

Brass, bottom or centre back
NG 63 G $\frac{1}{4}$ B – spanner size SW 14
NG 100 – 160 G $\frac{1}{2}$ B – spanner size SW 22
(EN 837-3/7.3)

Measuring element

Capsule element, CuBe alloy

Movement

Brass

Zero correction

From the front

Seal

NBR (Perbunan)

Dial

Aluminium, white
Dial marking black

Pointer

Aluminium, black

Housing

Stainless steel 304

Bayonet type bezel

Stainless steel 304

Window

Instrument glass

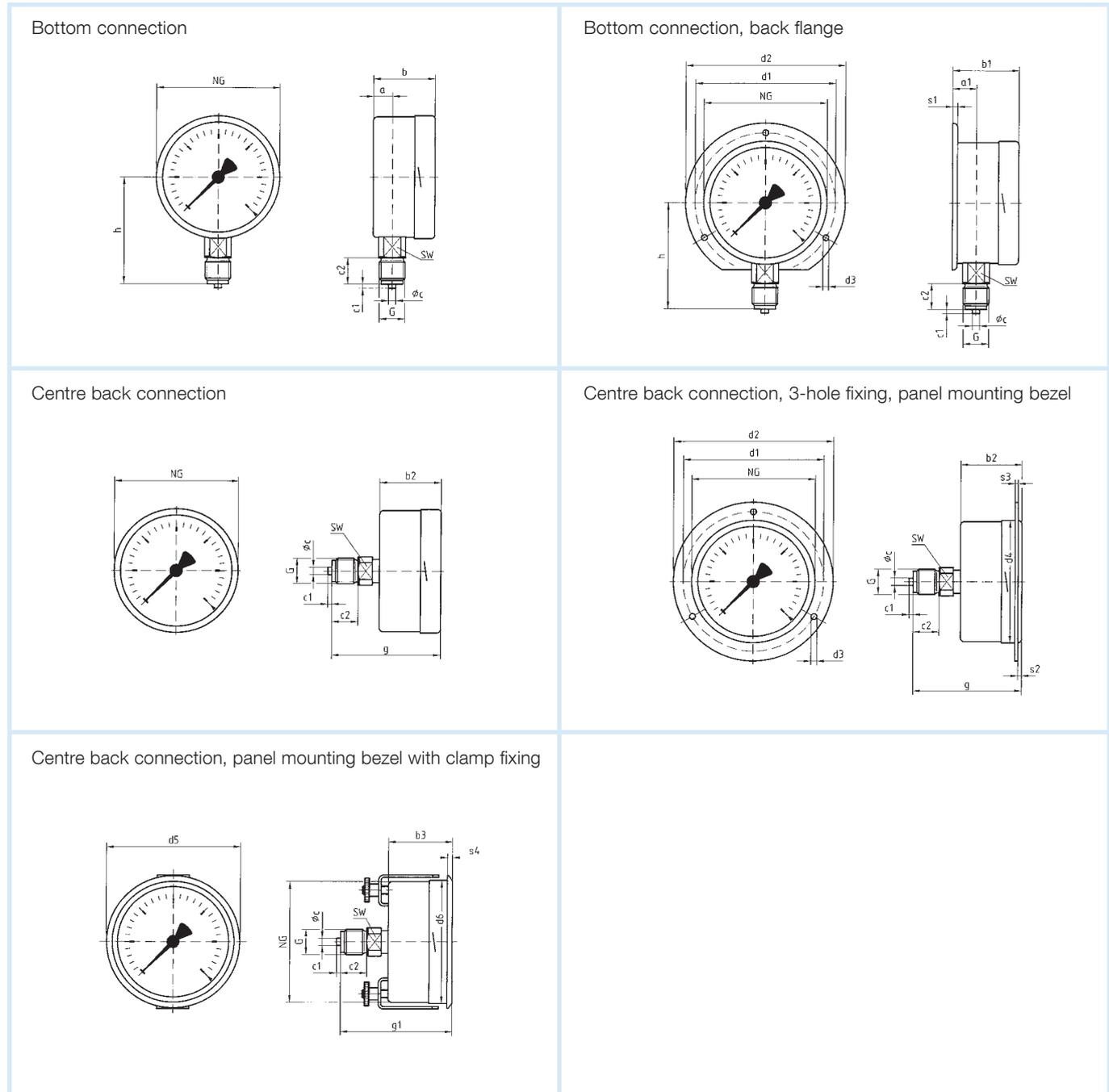
Options

- Overpressure safety 10 x FSD
- Back flange
- Panel mounting bezel, with window, plastic
- 3-hole fixing, panel mounting bezel with window, plastic
- Damping screw
- Reference pointer
- Special scales
- Other process connections

Standard capsule pressure gauges

Type D 4 – NG 63/100/160

Housing types and dimensions



Dimensions (mm)

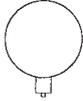
Nominal size (NG)	a	a1	b	b1	b2	b3	ϕ_c	c1	c2	d1*	d2	d3*	d4	d5	d6	G	g	g1	h	s1	s2
63	10.8	13.4	40	42.1	37	37	5	2	13	75	85	3.5	64	68	64	G $\frac{1}{4}$ B	60	60	53	5.2	3
100	15.6	19.1	49	52.5	49	49	6	3	20	116	132	4.8	104	107	101	G $\frac{1}{2}$ B	81	81	86	5.5	4
160	17.5	20.5	50	53	50	52	6	3	20	178	196	5.8	164	167	161	G $\frac{1}{2}$ B	82	84	116	6	4
Nominal size (NG)	s3	s4	SW																		
63	2	3	14																		
100	2	4	22																		
160	2	4.5	22																		

* Dimensions for NG 100 as per DIN 16014.

Standard capsule pressure gauges

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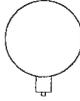
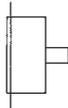
DG: M

Type	KP63, D201	KP63, D211	KP80, D201
Version			
Housing Ø	63	63	80
Housing	Black sheet steel, plastic clip-in window		
Measuring element	Capsule element, CuBe alloy		
Accuracy class	1.6	1.6	1.6
Connection	G¼B	G¼B	G½B
Range (mbar)	Part no.	Part no.	Part no.

Standard capsule pressure gauges

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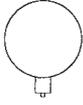
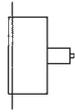
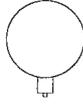
DG: M

Type	KP100, D201	KP100, D211	KP100, D221	KP63, D301	KP63, D311	KP63, D331	KP63, D351
Version							
Housing Ø	100	100	100	63	63	63	63
Housing	Black sheet steel, plastic, clip-in window			Stainless steel 304, plastic clip-in window			
Measuring element	Capsule element, CuBe alloy			Capsule element, CuBe alloy			
Accuracy class	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Connection	G $\frac{1}{2}$ B	G $\frac{1}{2}$ B	G $\frac{1}{2}$ B	G $\frac{1}{4}$ B	G $\frac{1}{4}$ B	G $\frac{1}{4}$ B	G $\frac{1}{4}$ B
			3-hole fixing, panel mounting bezel, black			3-hole fixing, panel mounting bezel, stainless steel 304, polished	Clamp fixing
Range (mbar)	Part no.	Part no.	Part no.				

Standard capsule pressure gauges

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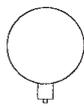
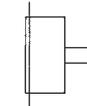
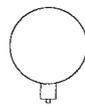
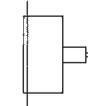
DG: M

Type	KP80, D301	KP80, D311	KP80, D331	KP80, D351	KP100, D301	KP100, D311
Version						
Housing Ø	80	80	80	80	100	100
Housing	Stainless steel 304, plastic clip-in window					
Measuring element	Capsule element, CuBe alloy					
Accuracy class	1.6	1.6	1.6	1.6	1.6	1.6
Connection	G½B	G½B	G½B	G½B	G½B	G½B
			3-hole fixing, panel mounting bezel, chrome-plated	Panel mounting bezel, chrome plated, with clamp fixing		
Range (mbar)	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.

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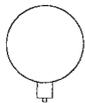
DG: M

Type	KP63, D401	KP63, D411	KP63, D431	KP63, D451	KP100, D401	KP100, D411	KP100, D431	KP100, D451
Version								
Housing Ø	63	63	63	63	100	100	100	100
Housing	Stainless steel 304 with bayonet bezel, instrument glass window							
Measuring element	Capsule element, CuBe alloy							
Accuracy class	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Connection	G¼B	G¼B	G¼B	G¼B	G½B	G½B	G½B	G½B
			3-hole fixing, panel mounting bezel, 304, polished	Panel mounting bezel, 304, polished, with clamp fixing			3-hole fixing, panel mounting bezel, 304, polished	Panel mounting bezel, 304, polished, with clamp fixing
Range (mbar)	Part no.	Part no.	Part no.					

Capsule pressure gauges

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DG: M

Type	Standard version				Panel mounting version		
	KP160, D401	KP160, D411	KP160, D431	KP160, D451	KP72, D111	KP96, D311	KP144, D211
Version							
Housing Ø	160	160	160	160	72 x 72	96 x 96	144 x 144
Housing	Stainless steel 304 with bayonet bezel				Plastic	Stainless steel	Sheet steel
Measuring element	Capsule element, CuBe alloy				Capsule element, CuBe alloy		
Accuracy class	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Connection	G½B	G½B	G½B	G½B	G¼B	G¼B	G½B
			3-hole fixing, panel mounting bezel, 304, polished	Panel mounting bezel, 304, polished, with clamp fixing			
Range (mbar)	Part no.	Part no.	Part no.				