

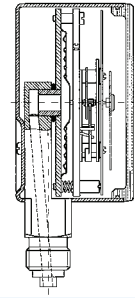
Standard capsule pressure gauges



EN 837-3



- With zero correction
- Ideal for low pressure ranges
- GOSSTANDART-certified



1

Application For gaseous, dry media which do not attack copper alloys.

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 0/1,000 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 33 (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 (D3)
- 3-hole fixing, panel mounting bezel
- Measuring system stainless steel (NG 100)
- Damping screw
- Reference pointer
- Special scales
- Other process connections

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See page 11 for prices.

Standard capsule pressure gauges

Type D 2/D 3 – NG 63/80/100

1 Housing types and dimensions

<p>Bottom connection</p>	<p>Bottom connection, back flange</p>
<p>Centre back connection</p>	<p>Centre back connection, 3-hole fixing, panel mounting bezel</p>
<p>Centre back connection, crimped bezel housing with clamp fixing, NG 63</p> <p>① Rotary knob</p>	<p>Centre back connection, panel mounting bezel with clamp fixing, NG 80/100</p>

Dimensions (mm)

Nominal size (NG)	a	a1	b	b1	b2	b3	b4	Øc	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 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 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 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 according to DIN 16014.

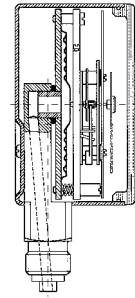
Standard capsule pressure gauges



EN 837-3



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



1

Application For gaseous, dry media which do not attack copper alloys.

Technical specifications

Type
D 4

Nominal size
63 – 100 – 160

Accuracy class (EN 837-3/6)
1.6 (25 to 1,000 mbar)
4 at NG 160 (6 to 16 mbar)

Ranges (EN 837-3/5)
NG 63-100: 0/25 to 0/1,000 mbar
NG 160: 0/6 to 0/1,000 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 63-160: IP 33 (EN 60529)
NG 100: IP 54 (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
Panel mounted devices (types D 431/451):
Plastic (PMMA)

- Options**
- Overpressure and underpressure 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

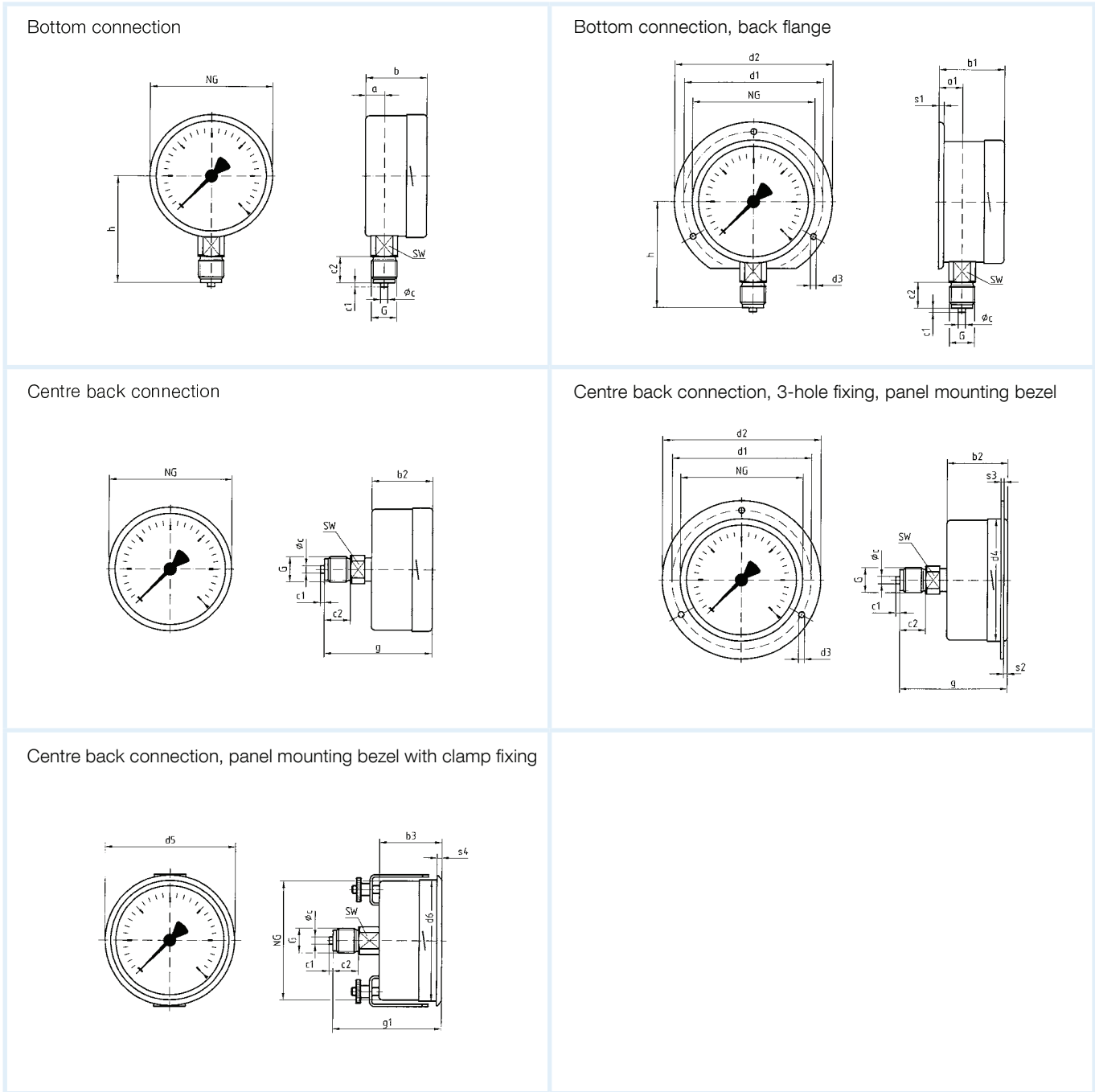
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See page 14 for prices.

Standard capsule pressure gauges

Type D 4 – NG 63/100/160

1 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	G¼B	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	G½B	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	G½B	82	84	116	6	4
Nominal size (NG)	s3	s4	SW																		
63	2	3	14																		
100	2	4	22																		
160	2	4.5	22																		



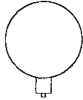
* Dimensions for NG 100 according to DIN 16014.

Standard capsule pressure gauges

EN 837-3

DG: M, PG: 2

1

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.
Price €			
-25/0	35004201	35004211	35054201
-40/0	35005201	35005211	35055201
-60/0	35006201	35006211	35056201
-100/0	35007201	35007211	35057201
-160/0	35008201	35008211	35058201
-250/0	35009201	35009211	35059201
-400/0	35010201	35010211	35060201
-600/0	35011201	35011211	35061201
-1,000/0	35012201	35012211	35062201
Price €			
0/25	35016201	35016211	35066201
0/40	35017201	35017211	35067201
0/60	35018201	35018211	35068201
0/100	35019201	35019211	35069201
0/160	35020201	35020211	35070201
0/250	35021201	35021211	35071201
0/400	35022201	35022211	35072201
0/600	35023201	35023211	35073201
0/1,000	35024201	35024211	35074201

Minimum order quantity for non-stock items = 10 pieces.

Blue part no. = in-stock items

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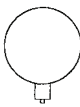

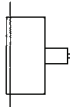


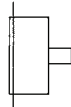

See page 20 for extra charges.

Standard capsule pressure gauges

EN 837-3

DG: M, PG: 2

1

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	G½B	G½B	G½B	G¼B	G¼B	G¼B	G¼B
			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.	Part no.	Part no.	Part no.	Part no.
Price €							
-25/0	35104201	35104211	35104221	35004301	35004311	35004331	35004351
-40/0	35105201	35105211	35105221	35005301	35005311	35005331	35005351
-60/0	35106201	35106211	35106221	35006301	35006311	35006331	35006351
-100/0	35107201	35107211	35107221	35007301	35007311	35007331	35007351
-160/0	35108201	35108211	35108221	35008301	35008311	35008331	35008351
-250/0	35109201	35109211	35109221	35009301	35009311	35009331	35009351
-400/0	35110201	35110211	35110221	35010301	35010311	35010331	35010351
-600/0	35111201	35111211	35111221	35011301	35011311	35011331	35011351
-1,000/0	35112201	35112211	35112221	35012301	35012311	35012331	35012351
Price €							
0/25	35116201	35116211	35116221	35016301	35016311	35016331	35016351
0/40	35117201	35117211	35117221	35017301	35017311	35017331	35017351
0/60	35118201	35118211	35118221	35018301	35018311	35018331	35018351
0/100	35119201	35119211	35119221	35019301	35019311	35019331	35019351
0/160	35120201	35120211	35120221	35020301	35020311	35020331	35020351
0/250	35121201	35121211	35121221	35021301	35021311	35021331	35021351
0/400	35122201	35122211	35122221	35022301	35022311	35022331	35022351
0/600	35123201	35123211	35123221	35023301	35023311	35023331	35023351
0/1,000	35124201	35124211	35124221	35024301	35024311	35024331	35024351

Minimum order quantity for non-stock items = 10 pieces.

Blue part no. = in-stock items

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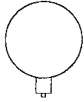

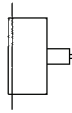

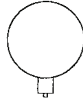

See page 20 for extra charges.

Standard capsule pressure gauges

EN 837-3

DG: M, PG: 2

1

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.
Price €						
-25/0	35054301	35054311	35054331	35054351	35104301	35104311
-40/0	35055301	35055311	35055331	35055351	35105301	35105311
-60/0	35056301	35056311	35056331	35056351	35106301	35106311
-100/0	35057301	35057311	35057331	35057351	35107301	35107311
-160/0	35058301	35058311	35058331	35058351	35108301	35108311
-250/0	35059301	35059311	35059331	35059351	35109301	35109311
-400/0	35060301	35060311	35060331	35060351	35110301	35110311
-600/0	35061301	35061311	35061331	35061351	35111301	35111311
-1,000/0	35062301	35062311	35062331	35062351	35112301	35112311
Price €						
0/25	35066301	35066311	35066331	35066351	35116301	35116311
0/40	35067301	35067311	35067331	35067351	35117301	35117311
0/60	35068301	35068311	35068331	35068351	35118301	35118311
0/100	35069301	35069311	35069331	35069351	35119301	35119311
0/160	35070301	35070311	35070331	35070351	35120301	35120311
0/250	35071301	35071311	35071331	35071351	35121301	35121311
0/400	35072301	35072311	35072331	35072351	35122301	35122311
0/600	35073301	35073311	35073331	35073351	35123301	35123311
0/1,000	35074301	35074311	35074331	35074351	35124301	35124311

Minimum order quantity for non-stock items = 10 pieces.

Blue part no. = in-stock items

i

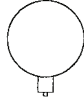
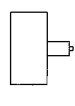
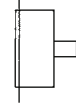
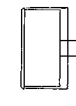

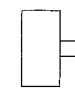
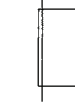

See page 20 for extra charges.

Standard capsule pressure gauges

EN 837-3

DG: M, PG: 2

1

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, window, see data sheet							
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.	Part no.	Part no.	Part no.	Part no.	Part no.
Price €								
-25/0	35004401	35004411	35004431	35004451	35104401	35104411	35104431	35104451
-40/0	35005401	35005411	35005431	35005451	35105401	35105411	35105431	35105451
-60/0	35006401	35006411	35006431	35006451	35106401	35106411	35106431	35106451
-100/0	35007401	35007411	35007431	35007451	35107401	35107411	35107431	35107451
-160/0	35008401	35008411	35008431	35008451	35108401	35108411	35108431	35108451
-250/0	35009401	35009411	35009431	35009451	35109401	35109411	35109431	35109451
-400/0	35010401	35010411	35010431	35010451	35110401	35110411	35110431	35110451
-600/0	35011401	35011411	35011431	35011451	35111401	35111411	35111431	35111451
-1,000/0	35012401	35012411	35012431	35012451	35112401	35112411	35112431	35112451
Price €								
0/25	35016401	35016411	35016431	35016451	35116401	35116411	35116431	35116451
0/40	35017401	35017411	35017431	35017451	35117401	35117411	35117431	35117451
0/60	35018401	35018411	35018431	35018451	35118401	35118411	35118431	35118451
0/100	35019401	35019411	35019431	35019451	35119401	35119411	35119431	35119451
0/160	35020401	35020411	35020431	35020451	35120401	35120411	35120431	35120451
0/250	35021401	35021411	35021431	35021451	35121401	35121411	35121431	35121451
0/400	35022401	35022411	35022431	35022451	35122401	35122411	35122431	35122451
0/600	35023401	35023411	35023431	35023451	35123401	35123411	35123431	35123451
0/1,000	35024401	35024411	35024431	35024451	35124401	35124411	35124431	35124451

Minimum order quantity for non-stock items = 10 pieces.

Blue part no. = in-stock items

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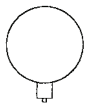

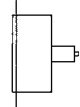

See page 20 for extra charges.

Standard capsule pressure gauges

EN 837-3

DG: M, PG: 2

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Type	KP160, D401	KP160, D411	KP160, D431	KP160, D451
Version				
Housing Ø	160	160	160	160
Housing	Stainless steel 304 with bayonet bezel			
Measuring element	Capsule element, CuBe alloy			
Accuracy class	1.6*	1.6*	1.6*	1.6*
Connection	G½B	G½B	G½B	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.	Part no.
Price €				
-6/0	35151401	35151411	35151431	35151451
-10/0	35152401	35152411	35152431	35152451
-16/0	35153401	35153411	35153431	35153451
Price €				
-25/0	35154401	35154411	35154431	35154451
-40/0	35155401	35155411	35155431	35155451
-60/0	35156401	35156411	35156431	35156451
-100/0	35157401	35157411	35157431	35157451
-160/0	35158401	35158411	35158431	35158451
-250/0	35159401	35159411	35159431	35159451
-400/0	35160401	35160411	35160431	35160451
-600/0	35161401	35161411	35161431	35161451
-1,000/0	35162401	35162411	35162431	35162451
Price €				
0/6	35163401	35163411	35163431	35163451
0/10	35164401	35164411	35164431	35164451
0/16	35165401	35165411	35165431	35165451
Price €				
0/25	35166401	35166411	35166431	35166451
0/40	35167401	35167411	35167431	35167451
0/60	35168401	35168411	35168431	35168451
0/100	35169401	35169411	35169431	35169451
0/160	35170401	35170411	35170431	35170451
0/250	35171401	35171411	35171431	35171451
0/400	35172401	35172411	35172431	35172451
0/600	35173401	35173411	35173431	35173451
0/1,000	35174401	35174411	35174431	35174451

* ≤ 16 mbar = accuracy class 4

Minimum order quantity for non-stock items = 10 pieces.

Blue part no. = in-stock items

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See page 20 for extra charges.