



Standard capsule pressure gauges for differential pressure type D4



Benefits

- Measurement of extremely small differential pressures
- Robust design
- Static pressures up to 400 mbar
- Direct indication of the differential pressure
- Many customised versions available

Application

For differential pressure measurement of non-corrosive, gaseous, dry media. Especially suitable for filter loss measurement in air conditioning and ventilation applications.

! For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

Technical specifications

Type

D4

Nominal size

100 – 160

Function

The "plus" pressure (= high pressure) is applied to the inside of the diaphragm. The "minus" pressure (= low pressure) is applied to the inside of the pressure-tight housing. The pressure difference causes the diaphragm to change its shape, thus generating the movement required to measure the pressure. This displacement is picked up by the movement. The differential pressure is directly indicated by a pointer.

Accuracy class

EN 837-3/6

≤ 0/16 mbar: 4,0

≥ 0/25 mbar: 1,6

Ranges (EN 837-3/5)

See ordering table

Application area

Static load: Full scale value

Dynamic load: 0.9 x full scale value

Overpressure safety

Full scale value

Maximum static pressure

400 mbar

Operating temperature range

Medium: Max. 60 °C

Ambient: -20/+60 °C

Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:
at rising temperature approx. ± 0.6 %/10 K
falling temperature approx. ± 0.6 %/10 K
of full scale value

Degree of protection

IP 66 (EN 60529)

Standard version

Connection

Stainless steel 316 Bottom, parallel, one behind the other
Ti/316 L:
Brass: Centre back, parallel, below each other
2 x G½B, SW22 (EN
837-3/7.3)

Measuring element (wetted part)

Capsule element, CuBe alloy

Movement (wetted part)

Brass

Zero correction

From the front

Seal (wetted part)

NBR (Perbunan)

Dial (wetted part)

Aluminium, white
Scaling black

Pointer (wetted part)

Aluminium, black

Housing (wetted part)

Stainless steel 304

Bayonet type bezel

Stainless steel 304

Window (wetted part)

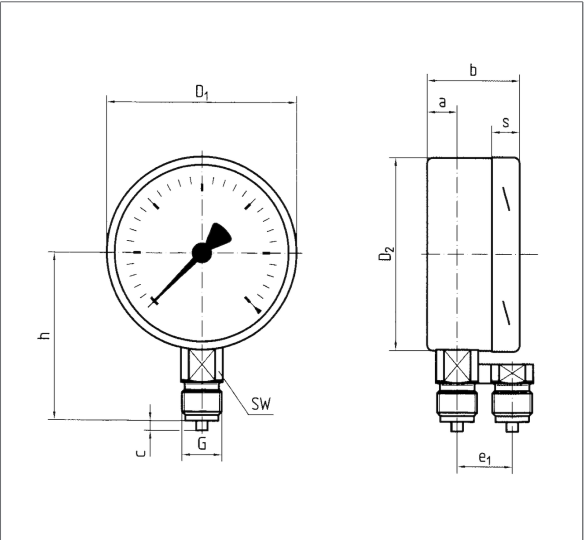
Plastic (PMMA)

Options

- Back flange
- 3-hole fixing, panel mounting bezel
- Hose connections
- Special scales
- Other process connections

Technical drawings

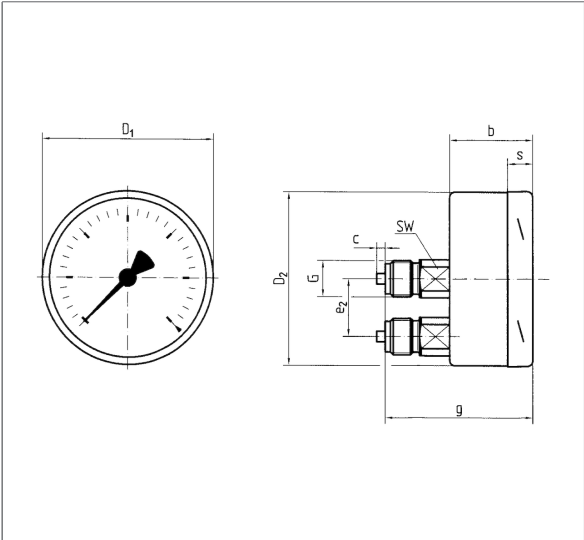
NG 100/160 – bottom connection



Dimensions (mm)

NG	a	b	c	D1	D2	e1	G	h	s	SW
100	16	49	3	101	99	32	G½B	86	20	22
160	16	49	3	161	159	32	G½B	118	20	22

NG 100/160 – centre back connection



Dimensions (mm)

NG	b	c	D1	D2	e2	g	G	s	SW
100	49	3	101	99	34,5	79	G½B	20	22
160	49	3	161	159	34,5	79	G½B	20	22



Versions

KP100Dif D401

Housing [⊗]	Housing	Accuracy class	Connection	Range	Type	Part no.
100 mm	Stainless steel 304	4,0	2 x G½B	0/6 mbar	KP100Dif D401	35563401
100 mm	Stainless steel 304	4,0	2 x G½B	0/10 mbar	KP100Dif D401	35564401
100 mm	Stainless steel 304	4,0	2 x G½B	0/16 mbar	KP100Dif D401	35565401
100 mm	Stainless steel 304	1,6	2 x G½B	0/25 mbar	KP100Dif D401	35566401
100 mm	Stainless steel 304	1,6	2 x G½B	0/40 mbar	KP100Dif D401	35567401
100 mm	Stainless steel 304	1,6	2 x G½B	0/60 mbar	KP100Dif D401	35568401
100 mm	Stainless steel 304	1,6	2 x G½B	0/100 mbar	KP100Dif D401	35569401
100 mm	Stainless steel 304	1,6	2 x G½B	0/160 mbar	KP100Dif D401	35570401
100 mm	Stainless steel 304	1,6	2 x G½B	0/250 mbar	KP100Dif D401	35571401
100 mm	Stainless steel 304	1,6	2 x G½B	0/400 mbar	KP100Dif D401	35572401

Blue part no. = in-stock items

KP160Dif D401

Housing [⊗]	Housing	Accuracy class	Connection	Range	Type	Part no.
160 mm	Stainless steel 304	4,0	2 x G½B	0/4 mbar	KP160Dif D401	35612401
160 mm	Stainless steel 304	4,0	2 x G½B	0/6 mbar	KP160Dif D401	35613401
160 mm	Stainless steel 304	4,0	2 x G½B	0/10 mbar	KP160Dif D401	35614401
160 mm	Stainless steel 304	4,0	2 x G½B	0/16 mbar	KP160Dif D401	35615401
160 mm	Stainless steel 304	1,6	2 x G½B	0/25 mbar	KP160Dif D401	35616401
160 mm	Stainless steel 304	1,6	2 x G½B	0/40 mbar	KP160Dif D401	35617401
160 mm	Stainless steel 304	1,6	2 x G½B	0/60 mbar	KP160Dif D401	35618401
160 mm	Stainless steel 304	1,6	2 x G½B	0/100 mbar	KP160Dif D401	35619401
160 mm	Stainless steel 304	1,6	2 x G½B	0/160 mbar	KP160Dif D401	35620401
160 mm	Stainless steel 304	1,6	2 x G½B	0/250 mbar	KP160Dif D401	35621401
160 mm	Stainless steel 304	1,6	2 x G½B	0/400 mbar	KP160Dif D401	35622401

Blue part no. = in-stock items



KP100Dif D411

Housing [⊗]	Housing	Accuracy class	Connection	Range	Type	Part no.
100 mm	Stainless steel 304	4,0	2 x G½B	0/6 mbar	KP100Dif D411	35563411
100 mm	Stainless steel 304	4,0	2 x G½B	0/10 mbar	KP100Dif D411	35564411
100 mm	Stainless steel 304	4,0	2 x G½B	0/16 mbar	KP100Dif D411	35565411
100 mm	Stainless steel 304	1,6	2 x G½B	0/25 mbar	KP100Dif D411	35566411
100 mm	Stainless steel 304	1,6	2 x G½B	0/40 mbar	KP100Dif D411	35567411
100 mm	Stainless steel 304	1,6	2 x G½B	0/60 mbar	KP100Dif D411	35568411
100 mm	Stainless steel 304	1,6	2 x G½B	0/100 mbar	KP100Dif D411	35569411
100 mm	Stainless steel 304	1,6	2 x G½B	0/160 mbar	KP100Dif D411	35570411
100 mm	Stainless steel 304	1,6	2 x G½B	0/250 mbar	KP100Dif D411	35571411
100 mm	Stainless steel 304	1,6	2 x G½B	0/400 mbar	KP100Dif D411	35572411

Blue part no. = in-stock items

KP160Dif D411

Housing [⊗]	Housing	Accuracy class	Connection	Range	Type	Part no.
160 mm	Stainless steel 304	4,0	2 x G½B	0/4 mbar	KP160Dif D411	35612411
160 mm	Stainless steel 304	4,0	2 x G½B	0/6 mbar	KP160Dif D411	35613411
160 mm	Stainless steel 304	4,0	2 x G½B	0/10 mbar	KP160Dif D411	35614411
160 mm	Stainless steel 304	4,0	2 x G½B	0/16 mbar	KP160Dif D411	35615411
160 mm	Stainless steel 304	1,6	2 x G½B	0/25 mbar	KP160Dif D411	35616411
160 mm	Stainless steel 304	1,6	2 x G½B	0/40 mbar	KP160Dif D411	35617411
160 mm	Stainless steel 304	1,6	2 x G½B	0/60 mbar	KP160Dif D411	35618411
160 mm	Stainless steel 304	1,6	2 x G½B	0/100 mbar	KP160Dif D411	35619411
160 mm	Stainless steel 304	1,6	2 x G½B	0/160 mbar	KP160Dif D411	35620411
160 mm	Stainless steel 304	1,6	2 x G½B	0/250 mbar	KP160Dif D411	35621411
160 mm	Stainless steel 304	1,6	2 x G½B	0/400 mbar	KP160Dif D411	35622411

Blue part no. = in-stock items