

Differential Pressure Gauges

With Capsule Element • Model 716.11

Pressure Gauges

Service intended

Differential pressure measurement of clean and dry low pressure gases.

Nominal size

63, 100 and 160 mm

Accuracy class

1.6 per DIN 16 005

Design

WIKA trade pattern DT - GM 87 10 226

Scale ranges

63 mm: 0 ... 16 to 0 ... 400 mbar
100 mm: 0 ... 6 to 0 ... 250 mbar
160 mm: 0 ... 4 to 0 ... 250 mbar
or equivalent other units of pressure or vacuum.
Standard ranges per DIN 16 128

Working pressure

Steady: full scale value
Fluctuating: 0.9 x full scale value

Overpressure safety

No overpressure safety when pressure applied at one side only

Static pressure rating

63 mm: 400 mbar
100 and 160 mm: 250 mbar

Operating temperature

Ambient: -20 ... +60 °C
Medium: +70 °C maximum

Temperature error

Additional error when temperature of the pressure element deviates from +20 °C
Rising temperature: +0.3%/10 K of true scale value
Falling temperature: -0.3%/10 K of true scale value

Weather protection

IP 66 per EN 60 529 / IEC 529

Standard features

Pressure connection (exposed to pressure medium)

Cu-alloy, bottom parallel one behind the other
Threaded entry per DIN 16 288
63 mm: 2 x G 1/8 A. 14 mm flats
100 and 160 mm: 2 x G 1/2 A. 22 mm flats

Pressure element (exposed to pressure medium)

Cu-alloy

Movement (exposed to pressure medium)

Material: Cu-alloy

Dial (exposed to pressure medium)

White aluminium with black lettering per DIN 16 109

Pointer (exposed to pressure medium)

Black aluminium pointer



Zero adjustment (exposed to pressure medium)

Through window

Case (exposed to pressure medium)

Stainless steel case. 100 and 160 mm with blow-out membrane of PUR in case back

Window (exposed to pressure medium)

Clear non-splintering plastic

Sealing rings (exposed to pressure medium)

Buna rubber (NBR) and silicon rubber

Bezel ring

Cam ring (bayonet type) bezel, stainless steel

Gauge mounting

Pressure entries identified ⊕ and ⊖,
⊕ high pressure
⊖ low pressure
Panel mounting or surface mounting rings available
Optionally surface or pipe mounting pressure gauge support

Optional extras

- Other threaded pressure connection
 - 3-hole panel or surface mounting flange
 - Surface or pipe mounting pressure gauge support (see data sheet AM 09.07)
 - Pressure equalising valve (see data sheet AM 09.11)
 - Back pressure entry
 - Overpressure safety of high pressure side:
 - 3 x with scale ranges 0 ... 1,6 to 0 ... 25 mbar
 - 10 x with scale ranges 0 ... 40 to 0 ... 400 mbar
- Please inquire for overpressure safety of low pressure side

Special versions

Model 736.11 suitable for corrosive media and environments
 100 and 160 mm. Fully made of stainless steel, with exception of dial, pointer and window.
 100 mm: 0 ... 16 to 0 ... 400 mbar
 160 mm: 0 ... 1.6 to 0 ... 250 mbar
 Maximum static pressure rating 250 mbar

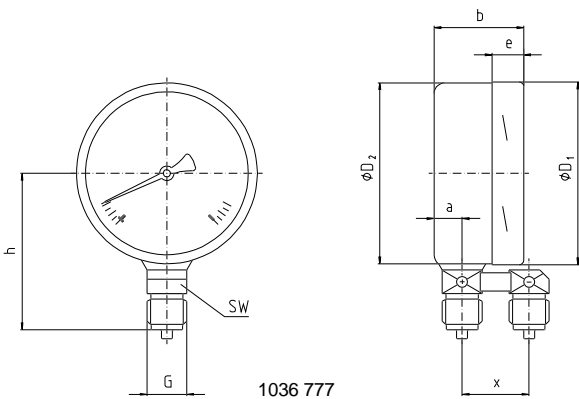
Design and operating principle

- The pressure retaining case contains the capsule pressure element.
 High pressure ⊕ is retained in capsule
 Low pressure ⊖ is retained in case
- Any pressure differential across high pressure and low pressure side will deflect the capsule pressure element.
- The deflection will be indicated on a graduated dial scale.

Dimensions

Standard version

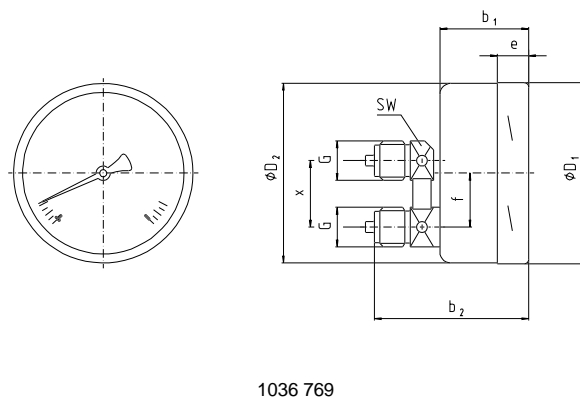
Radial bottom pressure entry



1036 777

Optional extra

Back pressure entry



1036 769

Nominal size	Dimensions [mm]												Weight [kg]
	a	b	b ₁	b ₂	D ₁	D ₂	e	f	G	h ± 1	X	SW	
63	11	48.5	38	55	64	62	13.5	20	2 x G 1/8 A ¹⁾	49	23	14	0.23
100	15.5	48.5	49.5	84	101	99	17.5	30	2 x G 1/2 A	87	37	22	0.73
160	15.5	48.5	51.5	87	161	159	17.5	50	2 x G 1/2 A	118	37	22	1.33

Standard pressure entry with parallel thread and seating to DIN 16 288.

1) without spigot.

Ordering information

State:

Model / Nominal size / Scale range / Maximum static pressure rating ... bar / Size and location of connection /
 Optional extras required

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.
 Modifications may take place and materials specified may be replaced by others without prior notice.



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