Differential pressure gauge with capsule element
Model 716.11, measuring system copper alloy
Model 736.11, measuring system stainless steel

Applications

- Differential pressure measurement at measuring points with very low differential pressures, for gaseous, dry, clean, oil and grease free media
- Model 736.11 also for aggressive media and environment
- Filter monitoring in ventilation and heating systems
- Filter monitoring in overpressure and clean rooms
- Differential pressure controlled monitoring of ventilator and blast pressures

Special features

- Differential pressure measuring ranges from 0 … 4 mbar
- As a standard zero adjustment in front
- Ingress protection IP 66
- Case from stainless steel

Differential pressure gauge model 716.11

Description

Design
For very low differential pressures, DT - GM 87 10 226

Nominal size in mm
Model 716.11: NS 63, 100, 160
Model 736.11: NS 100, 160

Accuracy class
1.6

Scale ranges
Model 716.11: NS 63: 0 ... 16 to 0 ... 400 mbar
NS 100: 0 ... 10 to 0 ... 250 mbar
NS 160: 0 ... 6 to 0 ... 250 mbar
Model 736.11: NS 100: 0 ... 16 to 0 ... 250 mbar
NS 160: 0 ... 1.6 to 0 ... 250 mbar
or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitation
Steady: Full scale value
Fluctuating: 0.9 x full scale value

Overpressure safety
Full scale value

Max. working pressure (static pressure)
NS 63: 400 mbar
NS 100, 160: 250 mbar

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

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.5 %/10 K of full scale value

Ingress protection
IP 66 per EN 60529 / IEC 529

Data sheets showing similar products:
Differential pressure gauges, compact design; model 716.05; see data sheet PM 07.12

Design and operating principle

- Pressure retaining case with capsule measuring element,
  ⊕ pressure is retained in capsule element
  ⊖ pressure is retained in case
- Pressure differential between ⊕ and ⊖ side deflects the capsule element
- The deflection is transmitted to the movement and indicated

Mounting according to affixed symbols,
⊕ high pressure and ⊖ low pressure

Mounting by means of:
- Rigid measuring lines
- Panel or surface mounting flange (option)
- Mounting bracket for wall or pipe mounting (option)

Standard version

Process connection (wetted)
Model 716.11: Copper alloy
Model 736.11: Stainless steel
Lower mount (LM), parallel one behind the other
NS 63: 2 x G ⅛ B (male), 14 mm flats
NS 100, 160: 2 x G ½ B (male), 22 mm flats

Pressure element (wetted)
Model 716.11: Copper alloy
Model 736.11: Stainless steel

Movement (wetted)
Model 716.11: Copper alloy
Model 736.11: Stainless steel

Dial (wetted)
Aluminium, white, black lettering

Pointer (wetted)
Aluminium, black

Zero adjustment (wetted)
Adjusting device for screwdriver in front

Case (wetted)
Stainless steel, pressure retaining,
NS 100, 160: With blow-out device PUR

Window (wetted)
Clear non-splintering plastic

Sealings (wetted)
NBR, silicone

Bezel ring
Cam ring (bayonet type), stainless steel

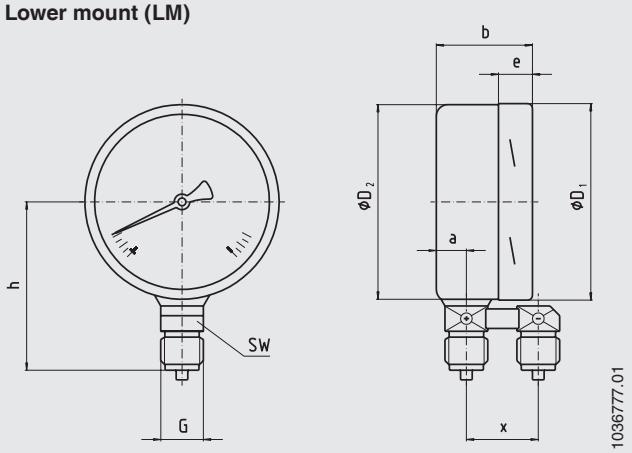
Options

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Panel or surface mounting flange
- Mounting bracket for wall or pipe mounting (data sheet AC 09.07)
- Pressure compensating valve (data sheet AC 09.11) - wetted
- Back mount (BM)
- Overpressure safety
  ⊕ side with scale ranges
  0 ... 1.6 mbar to 0 ... 25 mbar: 3 x full scale value
  ≥ 0 ... 40 mbar: To maximum working pressure
  ⊖ side: On request

Dimensions in mm

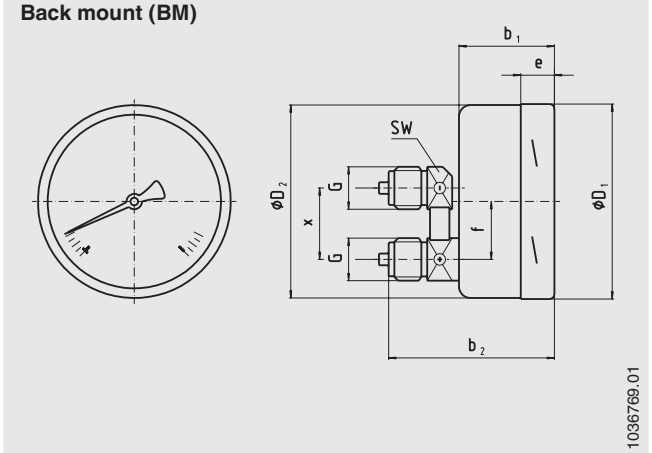
Standard version

Lower mount (LM)



Option

Back mount (BM)



NS	Dimensions in mm												Weight
	a	b	b_1	b_2	D1	D_2	e	f	G	h ±1	X	SW	in kg
63	11	48.5	38	55	64	62	13.5	20	2 x G ⅛ B [1)]	49	23	14	0.23
100	15.5	48.5	49.5	84	101	99	17.5	30	2 x G ½ B	87	37	22	0.73
160	15.5	48.5	51.5	87	161	159	17.5	50	2 x G ½ B	118	37	22	1.33

Process connection per EN 837-3 / 7.3

1) Without spigot

Ordering information

Model / Nominal size / Scale range / Max. working pressure (static pressure) ... mbar / Connection size / Connection location / Options

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