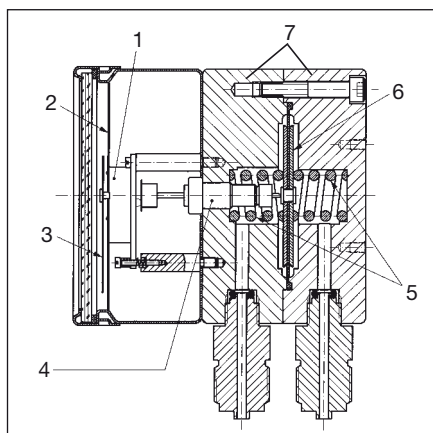


Spring-diaphragm pressure gauges for differential pressure – overload protected



Function overview

1. Movement
2. Dial
3. Pointer
4. Transmission unit
5. Measuring spring
6. Diaphragm
7. Measuring flange



Application

For differential pressure measurement with low differential pressure and high static pressure. For gaseous and liquid media with low viscosity and non-corrosive. Particularly suitable for monitoring filters, pumps and pipe systems.

Type

MF 100 Dif D401

Nominal size

100

Function

The pressures act on two pressure chambers separated by an elastic diaphragm. Different pressures in the chambers cause an axial deflection of the diaphragm against a pressure spring which is proportional to the pressure. This is transmitted to the movement via a rod. The differential pressure is directly indicated by a pointer. The diaphragm is held by metallic supports at both sides providing an overpressure safety of up to 25 bar.

Accuracy class (EN 837-3/6)

2.5

Ranges (EN 837-3/5)

0/250 mbar to 0/6 bar

Maximum static pressure

25 bar

Overpressure safety

Up to 25 bar on both sides

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 element deviates from 20 °C:
 rising temp. approx. $\pm 0.5\text{ %}/10\text{ K}$
 falling temp. approx. $\pm 0.5\text{ %}/10\text{ K}$
 percentage of full scale value

Protection

IP 54 (EN 60529)

Standard version

Connection

Brass, nickel plated, bottom, parallel in line
 2 x G1/2B – spanner size 22 (EN 837-3/7.3)
 with locked damping screw
 inner diameter 0.5 mm

Measuring element

Pressure spring
 stainless steel 301

Diaphragm

Viton

Measuring flange

Aluminium eloxed

Movement

Brass

Dial

Aluminium, white
 Dial marking black

Pointer

Aluminium, black

Housing

Stainless steel 304

Bayonet type bezel

Stainless steel 304

Front glass

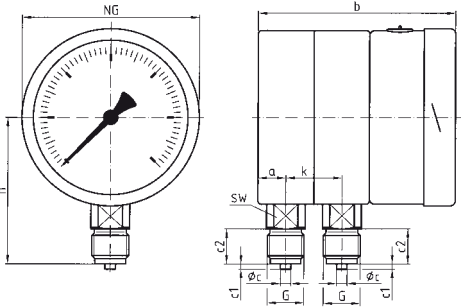
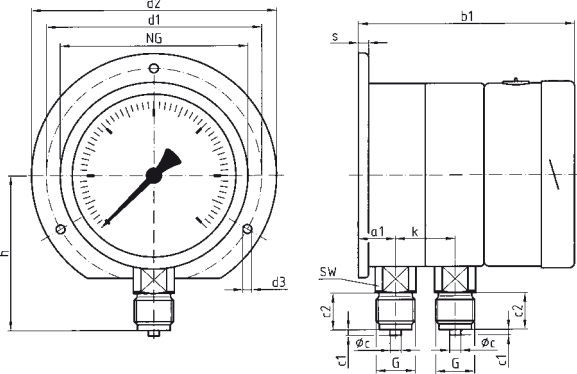
Laminated safety glass

Options

- Glycerine filling (type D8)
- Back flange
- Other connections

Spring-diaphragm pressure gauges for differential pressure Type D 4 – NG 100

Housing types and dimensions

Bottom connection	Bottom connection, back flange
	

Dimensions (mm)

Nominal size (NG)	a	a1	b	b1	Øc	c1	c2	d1	d2	d3	G	h	k	s	SW
100	16	19.5	112.5	116	6	3	20	116	132	4.8	G1/2B	84	32	5.5	22