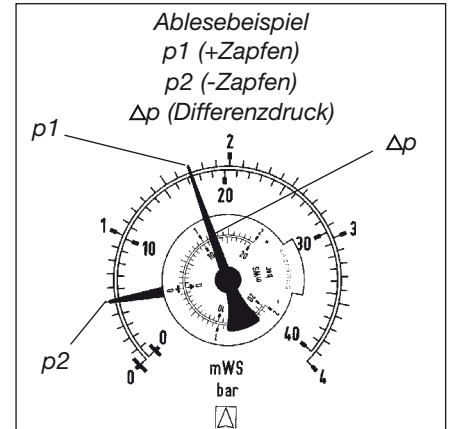
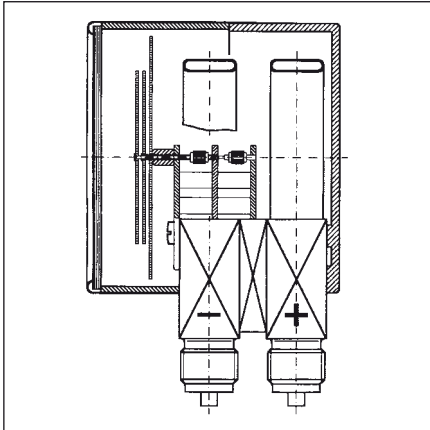


Standard Bourdon tube pressure gauges for differential pressure



Application

For differential pressure measurement of gaseous and liquid media which are not highly viscous, do not crystallize and do not attack copper alloys. Specially suitable for heating systems (supply and return pipes).

! When measuring gas or vapour, the instruments must be used in accordance with the safety recommendations of EN 837-2 (see appendix).

Type

D 2

Nominal size

100

Function

The pressures are measured in two independent Bourdon tube systems („plus“ pressure = high pressure, „minus“ pressure = low pressure). The pressure is indicated on a dial by a pointer. The differential pressure scale covers 50 % of the range of the „plus“ pressure and 50 % of the range of the „minus“ pressure. The black pointer („plus“ connection) and the red pointer („minus“ connection) at the differential pressure gauge scale allow you to read the pressures in either system on the fixed scale.

Accuracy class (EN 837-1 /6)

1.6

Ranges (EN 837-1/5)

0/0.6 to 0/60 bar

Application area

The maximum pressure in the system must not exceed the full scale value. To ensure good readability, the differential pressure to be measured should not be less than approx. 20 % of the full scale value.

Operating temperature range

Medium: $T_{max} = +60 \text{ }^\circ\text{C}$
 Ambient: $T_{min} = -20 \text{ }^\circ\text{C}$
 $T_{max} = +60 \text{ }^\circ\text{C}$

Temperature performance

Indication error when the temperature of the measuring element deviates from 20 °C:
 rising temp. approx. $\pm 0.4 \text{ } \%/10\text{K}$
 falling temp. approx. $\pm 0.4 \text{ } \%/10\text{K}$
 percentage of full scale value

Protection

IP 32 (EN 60529)

Standard version

Connection

Brass, bottom, parallel in line
 2 x G $1/2$ B – spanner size 22
 (EN 837-1/7.3)

Measuring element

Bourdon tube element,
 $\leq 60 \text{ bar}$ „C“ type bourdon tube, copper alloy
 $> 60 \text{ bar}$ helical tube, 316 Ti or 316 L

Movement

Brass

Dial

Aluminium, white
 Dial marking black (bar/mWC)

Pointer/dial

Aluminium

Housing

Sheet steel, black

Push-on bezel

Sheet steel, black

Front glass

Instrument glass

Options

- Wetted parts stainless steel
- Stainless steel housing and push-on bezel
- Nominal size 160 (D 1)
- Back flange
- 3-hole fixing, panel mounting bezel
- Damping screw

Standard Bourdon tube pressure gauges for differential pressure Type D 2 – NG 100

Housing types and dimensions

<p><i>Bottom connection</i></p>	<p><i>Bottom connection, back flange</i></p>
<p><i>Bottom connection, 3-hole fixing, panel mounting bezel</i></p>	

Dimensions (mm)

Nominal size (NG)	a	a1	b	b1	Øc	c1	c2	d1*	d2*	d3*	G	h	k	s	s1	s2	SW		
100	15.6	19.1	84	87.5	6	3	20	116	132	4.8	G ¹ / ₂ B	86	32	2	5.5	3	22		

* Dimensions according to DIN 16064