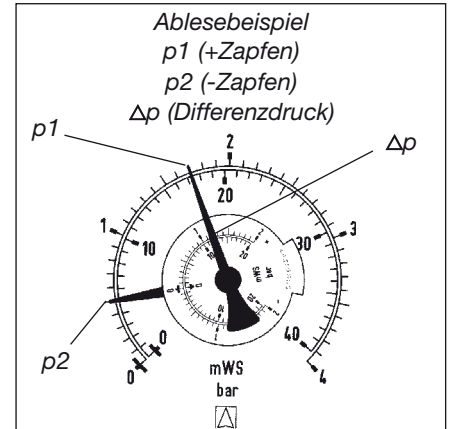
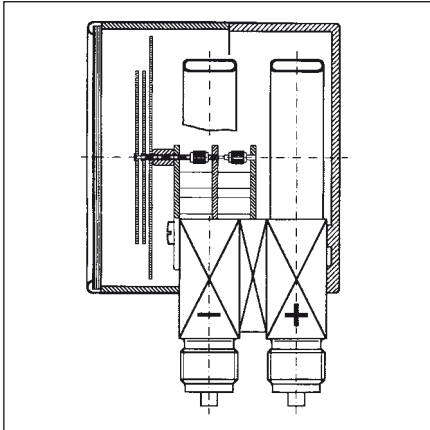


# Standard Bourdon tube pressure gauges for differential pressure



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

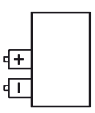
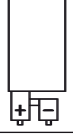
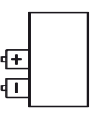
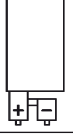
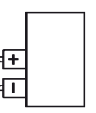
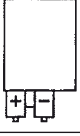
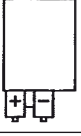
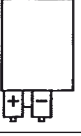
### Dimensions (mm)

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 <sup>1</sup> / <sub>2</sub> B	86	32	2	5.5	3	22		

\* Dimensions according to DIN 16064

# Standard capsule type/Bourdon tube pressure gauges for differential pressure

DG: M

Type	KP63Dif, D911	KP100Dif, D401	KP100Dif, D411	KP160Dif, D401	KP160Dif, D411	RF100Dif, D201	RF100Dif, D301	RF160Dif, D101
Version								
Housing Ø	63	100	100	160	160	100	100	160
Housing	Stainless steel 304, plastic front glass					Sheet steel	Stainless steel	Polyamide
Meas. elem.	Capsule element, CuBe alloy					Bourdon tube element, copper alloy		
Accuracy class	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Connection	G <sup>1</sup> / <sub>4</sub> B	G <sup>1</sup> / <sub>2</sub> B	G <sup>1</sup> / <sub>2</sub> B	G <sup>1</sup> / <sub>2</sub> B	G <sup>1</sup> / <sub>2</sub> B	G <sup>1</sup> / <sub>2</sub> B	G <sup>1</sup> / <sub>2</sub> B	G <sup>1</sup> / <sub>2</sub> B
						Dual scale bar/mWC, black		
Range	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
<b>Price €</b>								
0/4 mbar	---	---	---	35612401	35612411	---	---	---
0/6 mbar	---	35563401	35563411	35613401	35613411	---	---	---
0/10 mbar	---	35564401	35564411	35614401	35614411	---	---	---
0/16 mbar	35515911	35565401	35565411	35615401	35615411	---	---	---
0/25 mbar	35516911	35566401	35566411	35616401	35616411	---	---	---
0/40 mbar	35517911	35567401	35567411	35617401	35617411	---	---	---
0/60 mbar	35518911	35568401	35568411	35618401	35618411	---	---	---
0/100 mbar	35519911	35569401	35569411	35619401	35619411	---	---	---
0/160 mbar	35520911	35570401	35570411	35620401	35620411	---	---	---
0/250 mbar	35521911	35571401	35571411	35621401	35621411	---	---	---
0/400 mbar	35522911	35572401	35572411	35622401	35622411	---	---	---
<b>Price €</b>								
0/0.6 bar	---	---	---	---	---	85609201	85609301	---
0/1 bar	---	---	---	---	---	<b>85610201</b>	85610301	85660101
0/1,6 bar	---	---	---	---	---	<b>85611201</b>	85611301	85661101
0/2,5 bar	---	---	---	---	---	<b>85612201</b>	85612301	85662101
0/4 bar	---	---	---	---	---	<b>85613201</b>	85613301	85663101
0/6 bar	---	---	---	---	---	<b>85614201</b>	85614301	85664101
0/10 bar	---	---	---	---	---	<b>85615201</b>	85615301	85665101
0/16 bar	---	---	---	---	---	<b>85616201</b>	85616301	85666101
0/25 bar	---	---	---	---	---	85617201	85617301	85667101
0/40 bar	---	---	---	---	---	85618201	85618301	85668101
<b>Price €</b>								
0/60 bar	---	---	---	---	---	85619201	85619301	85669101
0/100 bar	---	---	---	---	---	---	---	85670101
0/160 bar	---	---	---	---	---	---	---	85671101
0/250 bar	---	---	---	---	---	---	---	85672101
0/400 bar	---	---	---	---	---	---	---	85673101
<b>Add. costs</b>						<b>Price €</b>	<b>Price €</b>	<b>Price €</b>
Wetted parts 316 Ti or 316 L	---	---	---	---	---		<b>on request</b>	