DIFFERENZIAL PRESSURE GAUGES WITH BOURDON TUBE

DRUCK & TEMPERATUR

Diameter 100 and 160
with measuring system Cu-alloy
with measuring system CrNi-steel

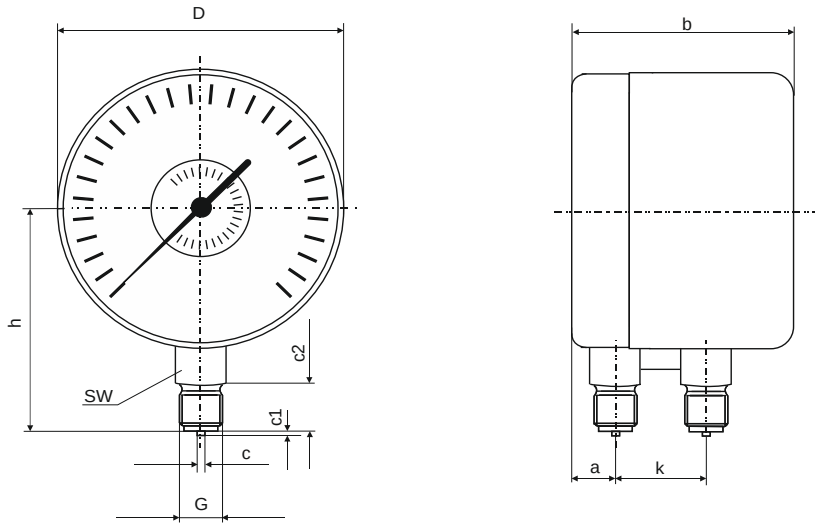
The pressure gauges are suitable for measuring of liquid and gaseous media, although this shouldn´t be too viscous or be susceptible to crystallization. For aggressive media, which attack the copper resp. the copper alloy, other versions (5631, 5636) with stainless steel medium wetted parts are available. Both pointers turn around the same axle and given + and - pressure separately. The pointer of the low-pressure side as the form of a dial.

The pointer indicating the reduced pressure, is formed as a dial. On this scale, the differential pressure can be up to 50% of the display area directly read.

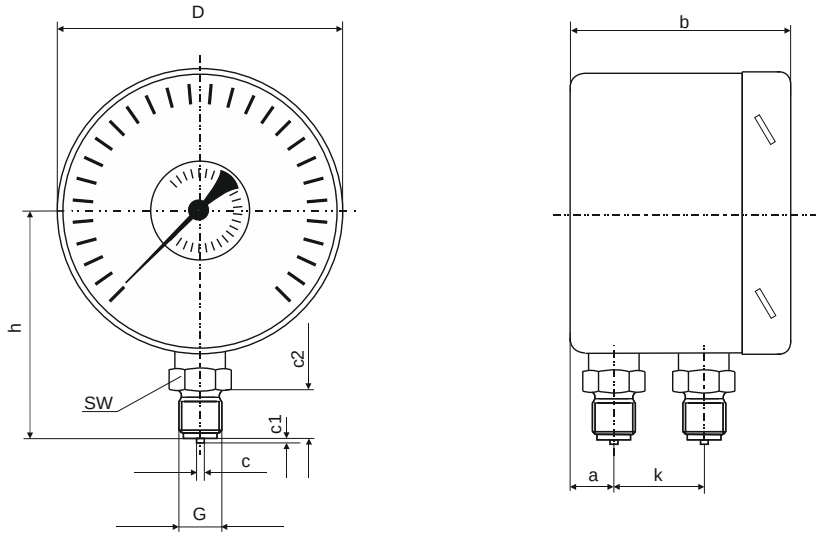
Type	5630	5635	5632	5636	Options
Diameter	**100**	**160**	**100**	**160**	
Symbol					with glycerine filling at BR 5630 and 5632
Accuracy class	1,6 acc. to EN 837-1				
Ranges[1)]	0...0,6 up to 0...1000 bar negative or positive / negative and positive overpressure				MPa, kPa
Application	Constant load: up to the end of scale value Alternating load: 0,9 x end of scale value Short-time: 1,3 x overload capacity				
Case	Steel, black varnished/ stainless steel (0…2,5 up to 0…25 bar)				rear flange
Ring	Steel, black varnished				front flange
Window	flat instrument glas				multi-composite laminate safe
Dial	Al white, scale and printing black, dual scale bar/mWS				
Pointer	Al red (knife edge pointer), Al schwarz, fixed to the turmable scale disc				Marker pointer
Movement	CuZn-alloy, bearing parts German-Silver				Stainless steel
Measuring element	Cu-alloy < 100bar bourdon tube ≥ 100 bar 1.4571 helical spring		CrNi-steel 1.4571		
Pressure connection	CuZn-alloy		CrNi-steel 1.4571		
Connection position	radial bottom, parallel (one behind the other)				
Thread	2 x G 1/2 B, 2 x M20x1,5				others on request
Temperatures	Medium: -20°C up to 60°C [2)] ambient: -20°C up to 60°C		Medium: -20°C up to 100°C		
Temperature drift	0,3%/10K deviation of normal temperature 20°C				
Protection	IP54 acc. to EN 60529/IEC 529				with glycerine filling IP65
Orifice					Ø 0,4; Ø 0,8
Approx. Weight	1,0 kg	1,6 kg	1,0 kg	1,6 kg	

Dimensioned drawing Dimensions in mm

Type	in stock 0 … 2,5 bis 0 … 25 bar										
	NG	D+/-1	a+/-0,5	b+/-1	k+/-1	G	h+/-1	SW	c	c1	c2
5630	100	102	15,5	80	32	G 1/2 B	85	22	6	3	20



Type	Manufactoring goods < 0 … 2,5; > 0 … 25 bar										
	NG	D+/-1	a+/-0,5	b+/-1	k+/-1	G	h+/-1	SW	c	c1	c2
5630/5632	100	100	15	85	32	G 1/2 B	87	22	6	3	20
5635/5636	160	160	33	104	32	G 1/2 B	117	22	6	3	20



Explanations of page 1

1) The range must be selected in consideration of the highest static pressure applied!
In heating circuits with circulating pumps the total pressure is calculated pressure given by the pumps plus the water column above. The pressure differential to be indicated should be no less than 1/8 of the full scale range.

When ordering please state both: a) static pressure applied b) differential pressure to be indicated

2) max. temperature +100°C brazed