Bourdon tube pressure gauges, marine version

MRE-M, nominal size 63 and 100 mm

SIKA manometers with 63 or 100 mm stainless steel cases in marine design are high-quality manometers that we produce in common versions and in large quantities. We keep these versions in stock specifically for shipbuilding and the shipping trade. By concentrating on optimised quantities of common types we achieve attractive sales prices.

These devices are only available as described in the data sheet. We implement options and special wishes based on our industrial versions (types MRE and MRE-G).

- Pressure gauges compliant with EN 837-1
- Stainless steel case with crimped-on ring
- Brass or stainless steel threaded connection
- Connection at bottom or centre rear, G½ B
- EN 837-1 accuracy class 1.0, class 1.6
  (for display range 0...600 or 0...1000 bar)

Type MRE-M

Ambient temperature sensitivity

The pressure gauges are calibrated at a reference temperature of 20 °C. At other operating temperatures the maximum indication error is ±0.4 % of full scale value per 10 °C difference in accordance with EN 837-1.

Case type

Available only with type MRE-g crimped-on ring case. Case ventilation is provided by a pressure equalisation insert.

Display ranges

DIN display ranges from -1...0 bar to 0...600 bar available.

Degree of protection according to EN 60529

IP65

Dial

Aluminium, white with black scale markings.

Window

Plastic, clear

Pointer movement

Brass & German silver; stainless steel for gauges with stainless steel connection.

Connection threads and materials

The connection block and the Bourdon tube is made from copper alloy. Instruments with NS 100 mm and bourdon tubes for scale ranges ≥100 bar are made from stainless steel.

Temperature range

- **Storage temperature**
  -20 to 60 °C
- **Ambient operating temperature**
  -20 to 60 °C
- **Media temperature**
  Gauges with brass connection 60 °C max.

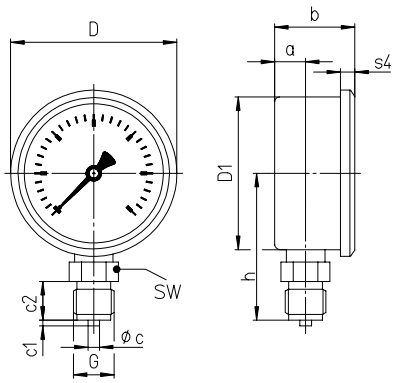
Options

- Mounting flange at front or rear
- U-clamp fixing
- Other options ca be realized based on our industrial version (Typen MRE und MRE-g)

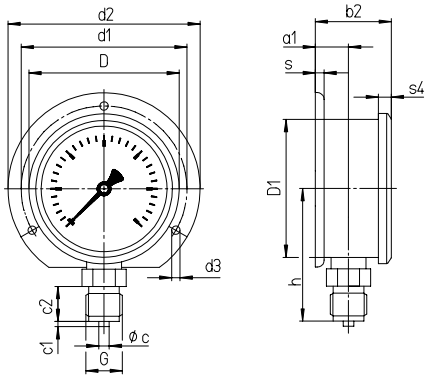
Maximum pressure load	63 mm	100 mm
Static load	75 % of full scale value	100 % of full scale value
Dynamic load	65 % of full scale value	90 % of full scale value
Overload	Full scale value	130 % of full scale value

Types and dimensions

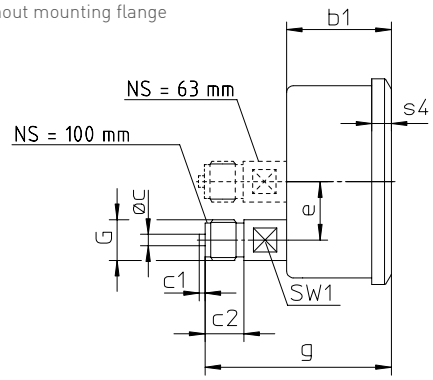
Bottom connection
Without mounting flange



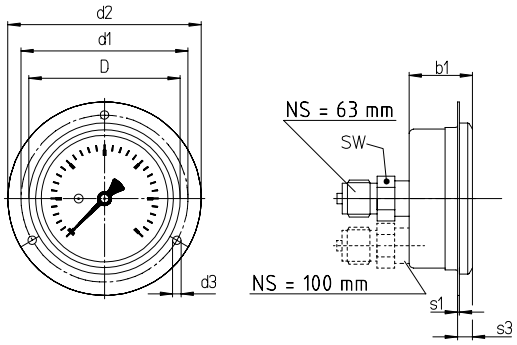
Bottom connection
With rear flange



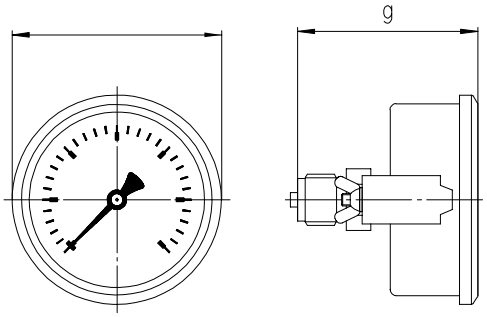
Central back connection
Without mounting flange



Central back connection
With front flange



Central back connection
Available with u-clamp



Dimensions [mm]

NS	D	D1	a	a1	b	b1	b2	c	c1	c2	d1	d2	d3	e	G	g	h	s	s1	s3	SW
63	68	62	13	14	32	32	33	5	2	13	75	85	3.6	-	G¼	58	54	1	1	4.5	14
100	107	99	15.5	14	48	48	49	6	3	20	115	132	5.1	30	G½	81.5	87	1	1	6	22

Order code

Order example	MREM	3	1	1	315	0	0	G
Bourdon tube pressure gauges, industrial version								
Crimped-on ring case	MREM							
Nominal size								
63 mm		1						
100 mm		3						
Connection thread								
G¼ B bottom (63 mm)			1					
G½ B bottom (100 mm)			1					
G¼ central back connection (63 mm)			5					
G½ B central back connection (100 mm)			2					
Connection material								
Brass				1				
Stainless steel (only for 0...1000 bar and 0...1600 bar)				3				
Display ranges								
-1...0 bar					315			
-1...0.6 bar					505			
-1...1.5 bar					515			
-1...3 bar					525			
-1...5 bar					535			
-1...9 bar					545			
-1...15 bar					555			
0...0.6 bar					015			
0...1 bar					025			
0...1.6 bar					035			
0...2.5 bar					045			
0...4 bar					055			
0...6 bar					065			
0...10 bar					075			
0...16 bar					085			
0...25 bar					095			
0...40 bar					105			
0...60 bar					115			
0...100 bar					125			
0...160 bar					135			
0...250 bar					145			
0...400 bar					155			
0...600 bar					165			
0...1000 bar					175			
Mounting flange								
None						0		
Rear flange						1		
Front flange						2		
U-clamp						3		
Option								
None							0	
Filled case								
Filled case (glycerine)								G