Standard spring-diaphragm pressure gauges for differential pressure - overload protected

Benefits

- Direct indication of the differential pressure
- High overload protection
- Zero correction
- With integrated pressure damping

Application

For differential pressure measurement at low differential pressure and high static pressure. For non-corrosive gaseous and liquid media which are not highly viscous. Particularly suitable for monitoring filters, pumps and pipe systems.

Technical specifications

Type
MF100Dif D401

Nominal size
100

Function
The pressures act on two pressure chambers separated by an elastic diaphragm. If there are different pressures in the chambers, the diaphragm is axially displaced against a compression spring. This is transmitted to the movement by means of a rod. The differential pressure is directly indicated by a pointer. The diaphragm is held by a metallic support which results in an overpressure safety of up to 25 bar at both sides.

Accuracy class (EN 837-3/6)
2,5

Ranges
See ordering table

Maximum static pressure
25 bar

Overpressure safety
Up to the maximum static pressure at both ends

Operating temperature range

Medium:	Max. 60 °C
Ambient:	-20/+60 °C

Temperature performance
Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:
at rising temperature approx. ± 0.5 %/10 K
falling temperature approx. ± 0.5 %/10 K
of full scale value

Degree of protection
IP 54 (EN 60529)

Standard version

Connection
Brass nickel-plated, bottom, parallel, one behind the other

Measuring element
Compression spring, Stainless steel 301

Diaphragm
FKM (Viton)

Measuring flange
Aluminium, anodized

Movement
Brass

Dial
Aluminium, white
Scaling black

Pointer
Aluminium, black

Housing
Stainless steel 304

Bayonet type bezel
Stainless steel 304

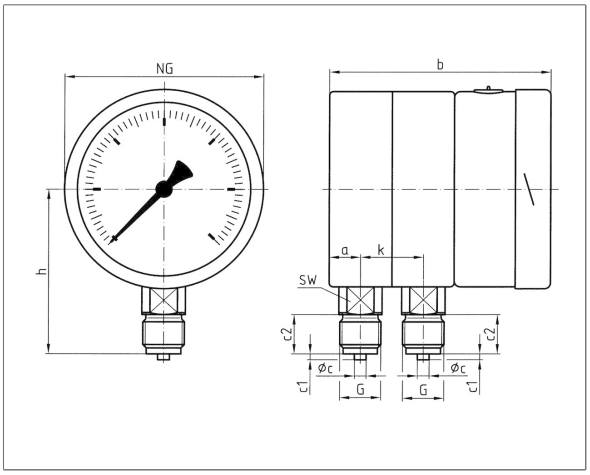
Window
Laminated safety glass

Options

- Glycerine filling (type D 8)
- Back flange
- Special scales
- Other process connections

Technical drawings

Bottom connection

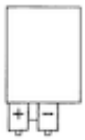


Dimensions (mm)

NG	a	b	∅c	c1	c2	G	h	k	SW
100	16	112,5	6	3	20	G½B	84	32	22

Versions

MF100Dif D401



Housing ⌀	Housing	Accuracy class	Connection	Range	Type	Part no.
100 mm	Stainless steel 304	2,5	2 x G½B	0/250 mbar	MF100Dif D401	88086401
100 mm	Stainless steel 304	2,5	2 x G½B	0/400 mbar	MF100Dif D401	88087401
100 mm	Stainless steel 304	2,5	2 x G½B	0/600 mbar	MF100Dif D401	88088401
100 mm	Stainless steel 304	2,5	2 x G½B	0/1 bar	MF100Dif D401	88089401
100 mm	Stainless steel 304	2,5	2 x G½B	0/1.6 bar	MF100Dif D401	88090401
100 mm	Stainless steel 304	2,5	2 x G½B	0/2.5 bar	MF100Dif D401	88091401
100 mm	Stainless steel 304	2,5	2 x G½B	0/4 bar	MF100Dif D401	88092401
100 mm	Stainless steel 304	2,5	2 x G½B	0/6 bar	MF100Dif D401	88093401

Blue part no. = in-stock items