



Industrial pressure gauges

All stainless **MEX5**
 Monel tube & block **MEM5**

Ø 100 mm

Pressure gauges intended for process industries such as chemical, petro-chemical, energy or gas industries.

These pressure gauges have been designed to satisfy requirements to operate in aggressive environments. All of the external components, together with the measurement element and connection are made of stainless steel (MEX5) or with Monel tube and block (MEM5).

- Corrosive atmospheres and fluids
- Resistant to transient overpressure
- Excellent accuracy; Class 1
- Robust construction - fully welded process connection
- Wide variety of pressure ranges
- Sealed case can be filled with a dampening fluid

Conforms to European standard
 EN 837



Specifications (20°C)

Measurement range :

- MEX5 : from - 1 + 0 to 0 + 1600 bar
- MEM5 : from - 1 + 0 to 0 + 600 bar

See standard graduations overleaf

Scales for vacuum, compound pressure and pneumatic receiver (linear or square root)

Can tolerate transient overpressure of + 30% up to 100 bar, and + 15% above 100 bar

Sensing element and connection :

	FOR SCALE RANGE
CONNECTION MATERIAL	MEX5 : 1.4404 (AISI 316L) stainless steel MEM5 : Monel 400
CONNECTION SHAPE	22 mm square
THREAD	G 1/2 A or 1/2 NPT
SENSING ELEMENT MATERIAL	MEX5: P ≤ 2,5 bar and P ≥ 1000 bar: 1.4404 (316L) - solid drawn tube 2,5 < P < 1000 bar: 1.4571 (316Ti) - rolled welded tube MEM5: Monel 400
TUBE SHAPE	In C P < 60 bar Helicoll P ≥ 60 bar
OPERATING TEMPERATURE	°C
Process fluid	- 40 to + 200
Ambient	- 40 to + 100

Accuracy :

- ± 1% of full scale
- ± 2% of full scale, for 0 + 0.4 bar

IP rating: IP 65 in accordance with NF EN 60529

Case and bezelring :

Stainless steel 1.4301 (AISI 304) Bayonet lock type

Window : glass, 4 mm thick

Window gasket : elastomer

Movement :

Stainless steel with zero and overrange stops

Dial :

Aluminium alloy. Figures and lines black on white background

Pointer : Aluminium alloy, balanced, painted black

Blow out disc :

Elastomer: positioned at the top of the pressure gauge; blows out when there is excess pressure inside the case to open the inside of the case to atmosphere

Options

Uncoded options (to be listed after the coded number)

- Stainless steel case and bezelring 1.4404 (AISI 316L)
- Sensing element 1.4404 (AISI 316L)ss solid drawn tube (for 2.5 < P < 1000 bar).
- Window : safety laminated glass, polycarbonate, polymethacrylate (Plexiglas), or hardened glass.
- Micrometer adjustable pointer P ≥ 1.6 bar
- Restrictor screw
- Oxygen, laboratory or nuclear cleanliness
- Overrange protection device:
 - RAS 1 accuracy ± 1% P ≤ 600 bar
overrange between 2 and 3 times the scale (MEX5)
overrange between 1.3 and 1.5 times the scale (MEM5)
 - RAS 2 accuracy ± 2% P ≤ 1000 bar
overrange between 4 and 5 times the scale (MEX5)
overrange between 2 and 2.5 times the scale (MEM5 (*)
(*) P ≤ 600 bar

- Supplementary blow out back (30 mm dia)
- Dash pot dampening
- Pointer adjustable by friction (all pressures)
- Special threads
- Pressure gauge filled with dampening fluid, except for 0.4 bar

Coded options

Derived versions from MEX5:

- **MEM5**: parts in contact with the fluid are made in Monel 400 in accordance with NACE recommendation MR 0175
- **MEX5 PETR**: pressure gauge conforming to the oil standard
- **MEX5 EDL**: overrange indicator pressure gauge

Modifications reserved

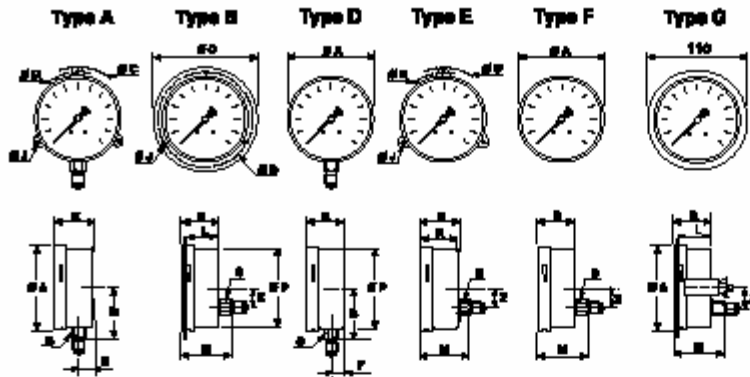
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Dimensions (mm)



Stainless Monel	Ø 100
A	101
B	67
C	134
D	118
E	21,5
F	17
J	5,5
K	55
L	44,5
M	65
P	99
R	50,5
S	22
Z	31,5

Weight: (kg)	
filled	unfilled
0,78	0,54

Panel cut-outs for types B and G = Ø 102 mm

Codification

M | **E** | **5** | | | | | | | *****

Family:

Pressure gauges — **M**

Type:

MEX (stainless) — **EX**
MEM (Monel) — **EM**

Dial diameter:

Ø 100 mm — **5**

Type of fitting and connection position:

bottom connection, 3 back lugs _____ **A**
back connection, front flange _____ **B**
bottom connection _____ **D**
back connection, 3 back lugs _____ **E**
back connection _____ **F**
back connection with clamp _____ **G**

Connection thread:

G1/4 A (male) _____ **2**
G1/2 A (male) _____ **3**
1/4 NPT (male) _____ **5**
1/2 NPT (male) _____ **6**

Type of filling:

dry _____ **0**
BH1 fluid (-20 to +70°C) _____ **1**
BH2 fluid (0 to +90°C) _____ **2**
BH3 fluid (-40 to +100°C) _____ **3**
BH5 fluid (-15 to +100°C) _____ **5**
BH7 fluid (-35 to +100°C) _____ **7**

Unit of measurement:

bar _____ **B**
kPa _____ **D**
kg/cm² _____ **F**
psi _____ **H**

Measurement ranges:

Model	Measurement scale in bar vacuum	Measurement scale in kPa vacuum	Measurement scale in psi vacuum
57	0 to +1	0 to +1	0 to +1
58	0 to +1	0 to +1	0 to +1
59	0 to +1	0 to +1	0 to +1
72	0 to +1	0 to +1	0 to +1
74	0 to +1	0 to +1	0 to +1
76	0 to +1	0 to +1	0 to +1
77	0 to +1	0 to +1	0 to +1
79	0 to +1	0 to +1	0 to +1
81	0 to +1	0 to +1	0 to +1
82	0 to +1	0 to +1	0 to +1
11	0 to +1	0 to +1	0 to +1
12	0 to +1	0 to +1	0 to +1
15	0 to +1	0 to +1	0 to +1
16	0 to +1	0 to +1	0 to +1
18	0 to +1	0 to +1	0 to +1
19	0 to +1	0 to +1	0 to +1
20	0 to +1	0 to +1	0 to +1
22	0 to +1	0 to +1	0 to +1
24	0 to +1	0 to +1	0 to +1
25	0 to +1	0 to +1	0 to +1
27	0 to +1	0 to +1	0 to +1
29	0 to +1	0 to +1	0 to +1
31	0 to +1	0 to +1	0 to +1
33	0 to +1	0 to +1	0 to +1
35	0 to +1	0 to +1	0 to +1
38	0 to +1	0 to +1	0 to +1
39	0 to +1	0 to +1	0 to +1
41	0 to +1	0 to +1	0 to +1
42	0 to +1	0 to +1	0 to +1

Monel version (MEM5) is not available in codes 57, 58, 41, 42, 1D

Uncoded options:

PNEUMATIC RECEIVER	0.2 - 1 bar 3-15 psi
0 - 101m	
0 - 10 v	
0 - 100 ltr	
0 - 100 v	

* Uncoded options to be listed after the coded number

Modifications reserved