

**Ø 100 mm**

These gauges have been specifically designed to fulfil the requirements of aggressive environments and fluids. Both internal and external parts are made of stainless steel (MEP5) and Monel tube and block (MMN5).

These versions have been developed with solid front and blowout back which immediately releases in the event of accidental tube rupture.

Watertight and fillable with dampening liquid, these safety gauges include a special compensating diaphragm which maintains accuracy by equalizing internal and atmospheric pressures.

- 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 :**

Measurement range:

- MEP5 : from -1 + 0 to 0 + 1600 bar
- MMN5 : 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 from + 30% up to 100 bar, and + 15% above 100 bar

**Sensing element and connection :**

	FOR SCALE RANGE
CONNECTION MATERIAL	MEP5: 1.4404 (AISI 316L) stainless steel MMN5: Monel 400
CONNECTION SHAPE	22 mm square
THREAD	G 1/2 or 1/2 NPT
SENSING ELEMENT MATERIAL	MEP5: P ≤ 2,5 bar and P ≥ 1000 bar: 1.4404 (316L) - solid drawn tube 2,5 < P < 1000 bar: 1.4571 (316 Ti) - rolled welded tube MMN5: Monel 400
TUBE SHAPE	C tube : P < 60 bar / Helicoil tube : 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 EN 60529  
IP 67 with dampening liquid

**Case and bezelring :**

Stainless steel 1.4301 (AISI 304) Bayonet lock type

**Window :** 4 mm thick laminated glass

**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

**Compensation diaphragm :**

Elastomer

**Options**

**Uncoded options** (to be listed after the coded number)

- Stainless steel case, bezelring and blow-out back 1.4404 (AISI 316L)
- Sensing element 1.4404 (AISI 316L) solid drawn tube (for 2,5 < P < 1000 bar)
- Micrometer adjustable pointer P ≥ 1.6 bar
- Restrictor screw
- Oxygen cleanliness
- Overrange protection device:
  - RAS 1 accuracy ± 1% P ≤ 600 bar
    - overrange between 2 and 3 times the scale (MEP5)
    - overrange between 1.3 and 1.5 times the scale (MMN5)
  - RAS 2 accuracy ± 2% P ≤ 1000 bar
    - overrange between 4 and 5 times the scale (MEP5)
    - overrange between 2 and 2.5 times the scale (MMN5)

- Vibration damped movement (Dashpot)
- Pointer adjustable by friction (all pressures)
- Special threads
- Pressure gauge filled with dampening fluid, except for 0.4 bar

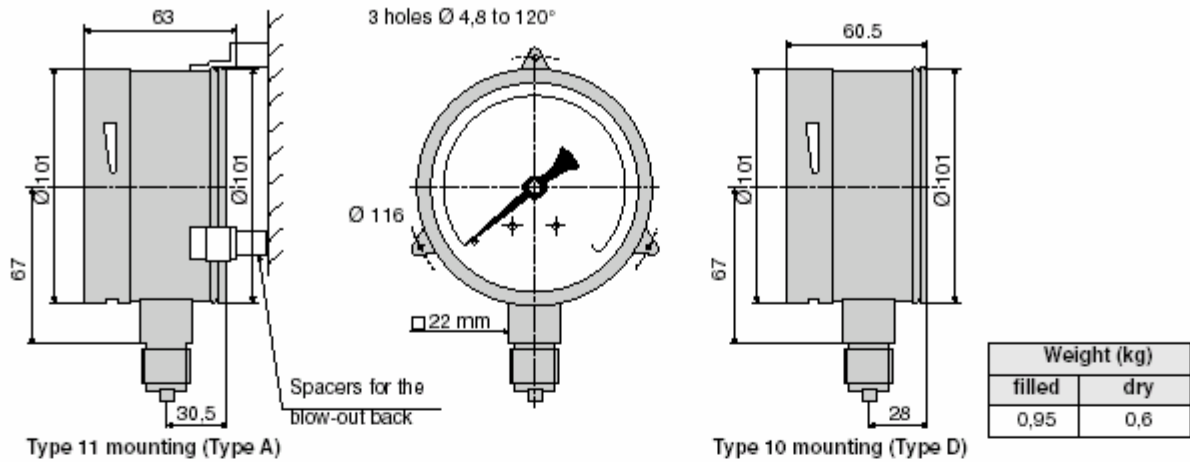
**Coded options**

**Derived versions from MEP5 :**

- **MMN5 :** parts in contact with the fluid are made of MONEL400 in accordance with NACE recommendation MR 0175
- **MR15 (CES), MR25 (CESA), MR35 (CEI) :** All stainless steel version with electrical contacts
- **MT15 (CES), MT25 (CESA), MT35 (CEI) :** MONEL 400 version with electrical contacts



**Dimensions (mm)**



**Codification**

**M** | | | **5** | | | | | | | | **\***

Family :

Pressure gauges — **M**

Type :

MEP (stainless) \_\_\_\_\_

MMN(monel) \_\_\_\_\_

**EP**

**MN**

Dial diameter :

Ø 100 mm \_\_\_\_\_

**5**

Type of fitting and connection position :

bottom connection, 3 back lug \_\_\_\_\_

bottom connection \_\_\_\_\_

**A**

**D**

Connection thread :

G1/4 (male) \_\_\_\_\_

G1/2 (male) \_\_\_\_\_

1/4 NPT (male) \_\_\_\_\_

1/2 NPT (male) \_\_\_\_\_

**2**

**3**

**5**

**6**

Type of filling :

dry \_\_\_\_\_

BH1 fluid (- 20 to + 70°C) \_\_\_\_\_

BH2 fluid (0 to + 90°C) \_\_\_\_\_

BH3 fluid (- 40 to + 100°C) \_\_\_\_\_

BH5 fluid (- 15 to + 100°C) \_\_\_\_\_

BH7 fluid (- 35 to + 100°C) \_\_\_\_\_

**0**

**1**

**2**

**3**

**5**

**7**

Unit of measurement :

bar \_\_\_\_\_

kPa \_\_\_\_\_

kg/cm<sup>2</sup> \_\_\_\_\_

psi \_\_\_\_\_

Ranges :

bar, kPa	ranges bar		ranges kPa		psi	ranges psi	
	min	max	min	max		min	max
57	-0,4	0	-40	+ 0	57		
58	-0,6	0	-60	+ 0	58		
59	-1	0	-100	+ 0	59	-30 1/2	+ 0
72	-1	+ 0,6	-100	+ 60	73	-30 1/2	+ 15
74	-1	+ 1,5	-100	+ 150	75	-30 1/2	+ 30
76	-1	+ 3	-100	+ 300	76	-30 1/2	+ 60
77	-1	+ 5	-100	+ 500	77	-30 1/2	+ 100
79	-1	+ 9	-100	+ 900	79	-30 1/2	+ 150
81	-1	+ 15	-100	+ 1500	81		
82	-1	+ 24	-100	+ 2400	82	-30 1/2	+ 300
11	0	+ 0,4	0	+ 40	11	0	+ 6
12	0	+ 0,6	0	+ 60	12	0	+ 10
15	0	+ 1	0	+ 100	15	0	+ 15
16	0	+ 1,6	0	+ 160	16	0	+ 20
18	0	+ 2,5	0	+ 250	17	0	+ 30
19	0	+ 4	0	+ 400	19	0	+ 60
20	0	+ 6	0	+ 600	21	0	+ 100
22	0	+ 10	0	+ 1000	22	0	+ 160
24	0	+ 16	0	+ 1600	23	0	+ 200
26	0	+ 25	0	+ 2500	25	0	+ 300
27	0	+ 40	0	+ 4000	26	0	+ 400
29	0	+ 60	0	+ 6000	27	0	+ 600
31	0	+ 100	0	+ 10000	30	0	+ 1000
33	0	+ 160	0	+ 16000	31	0	+ 1600
35	0	+ 250	0	+ 25000	34	0	+ 3000
38	0	+ 400	0	+ 40000	38	0	+ 6000
39	0	+ 600	0	+ 60000	40	0	+ 10000
41	0	+ 1000	0	+ 100000	41	0	+ 15000
42	0	+ 1600	0	+ 160000	42	0	+ 20000

Monel version (MMN5) is not available in codes 57, 58, 41, 42, 1D.

**B**  
**D**  
**F**  
**H**

Uncoded options :

PNEUMATIC RECEIVER	0,2 - 1 bar 3-15 psi
0 - 10 in.	
0 - 10 v	
0 - 100 in.	
0 - 100 v	

**\*** Uncoded options to be listed after the coded number

Modifications reserved