

## Pressure gauge steel TYP MM04



### description:

Pressure gauges are used to visually check the supply pressure in a system. Impress with its high reliability and long-term stability. Ideal for use in the chemical and petrochemical industry, pharmacy and food industry.

### product features:

- Suitable for gaseous and liquid, aggressive, not highly viscous and non-crystallizing media that do not attack copper alloys
- radial and axial connection

### connection:

MM04: 1/2" B

### temperature:

-20°C up to +60°C (environment)  
up to +60°C (media)

### pressure:

0 up to +60 bar –  
depending on design

### diameter:

MM04: axial 63 mm and radial 100 mm

### design:

### body material:

### pipe-spring:

### connection-nipple:

### degree of protection:

### measuring element:

pressure gauge steel with pipe-spring measuring element

sheet steel, black

plastic, clipped-in with adjustable red brand pointer

brass

IP 32 according to EN 60529

bourdon tube, copper alloy

up to 60 bar with circular spring

from 60 bar with helical spring

medium: Tmax = +60°C

environment: Tmin = -20°C

Tmax = +60°C

### temperature:

caution: display error if the measuring system deviates from the normal temperature by 20°C

with temperature increase approx. ca. ±0,4% /10 K,

with temperature increase approx. ca. ±0,4% /10 K

from the respective scale end value

### ring:

63 mm crimp ring,

100 mm bayonet ring

### accuracy class:

1,6 according to EN 837-1/6

### area of use:

resting load: 3/4 x full scale

alternating load: 2/3 x full scale

maximum load: full scale, only for a short time

### dial:

plastic white, scaling black

### pointer:

plastic, black

**selection criteria / safety aspects for pressure gauges in accordance to EN 837-2:**

**For liquid media:**

|                                        |                     |     |     |     |
|----------------------------------------|---------------------|-----|-----|-----|
| media                                  | liquids             |     |     |     |
| body                                   | without liquid fill |     |     |     |
| nominal size                           | 63                  |     | 100 |     |
| display range in bar                   | ≤25                 | >25 | ≤25 | >25 |
| abbreviation for minimum safety design | 0                   | 0   | 0   | 0   |

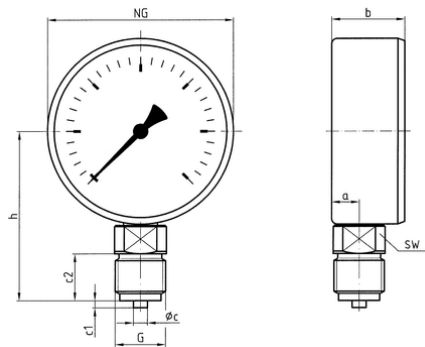
**For gaseous media:**

|                                        |                                                                   |            |            |            |
|----------------------------------------|-------------------------------------------------------------------|------------|------------|------------|
| media                                  | gas or steam<br>(important: does not apply to oxygen + acetylene) |            |            |            |
| body                                   | without liquid fill                                               |            |            |            |
| nominal size                           | 63                                                                |            | 100        |            |
| display range in bar                   | ≤25                                                               | >25        | ≤25        | >25        |
| abbreviation for minimum safety design | 0                                                                 | 2          | 1          | 3          |
| applicable types                       | MM04                                                              | On request | On request | On request |

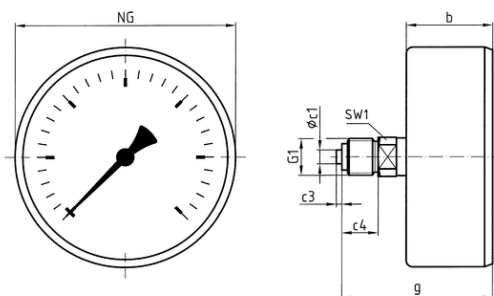
**abbreviation:**

- 0= pressure gauge without relief opening
- 1= pressure gauge with relief opening
- 2= safety pressure gauges without unbreakable partition wall
- 3= safety pressure gauges with unbreakable partition wall

**dimensions:**



| type            | connection | NG  | a  | b    | Øc | c1 | c2 | G       | h  | SW |
|-----------------|------------|-----|----|------|----|----|----|---------|----|----|
| <b>MM04 0 0</b> | radial     | 100 | 11 | 29,5 | 6  | 3  | 20 | G 1/2 B | 82 | 14 |



| type            | connection | NG | b1   | Øc | c1 | c2 | G        | g    | s   | SW |
|-----------------|------------|----|------|----|----|----|----------|------|-----|----|
| <b>MM04 1 0</b> | axial      | 63 | 29,4 | 5  | 2  | 13 | G 1/4 B* | 50,4 | 3,7 | 14 |

\* The pressure gauge has a 1/4" inch connection. The connection can be enlarged to 1/2" inch by using a transition piece included in the scope of delivery

article number:

| type | connection              | option       | display                                                                 | diameter   |
|------|-------------------------|--------------|-------------------------------------------------------------------------|------------|
| MM04 | 0 – radial<br>1 – axial | 0 – standard | 08 – 0-16 bar<br>09 – 0-25 bar<br><b>10 – 0-40 bar</b><br>11 – 0-60 bar | 02 – G ½ B |

example no. MM040010012

|      |   |   |    |    |
|------|---|---|----|----|
| MM04 | 0 | 0 | 10 | 02 |
|------|---|---|----|----|

pressure gauge made of steel  
connection: radial (bottom)  
option: standard  
display: 0-40 bar  
diameter: G 1/2" B (100mm)

Illustration similar, subject to technical and dimensional change