

# MEX3 industrial Pressure Gauge

Crimped Bezel & Bayonet Bezel  
for corrosive gases and liquids



## MEX3 (Crimped bezel)

Industrial pressure gauges

MEX3-###.###/

### Overview

- For corrosive gases and liquids
- Class 1.6 according to EN 837-1
- Wetted parts: Stainless steel
- Case with crimped bezel ring



Picture similar



### Technical data

#### Housing

|                              |                                                         |
|------------------------------|---------------------------------------------------------|
| Nominal size                 | 63 mm                                                   |
| Case material                | Stainless steel 1.4301 / AISI 304                       |
| Type of housing              | Crimped bezel (option 0133 mandatory)                   |
| Bezel ring material          | Stainless steel 1.4301 / AISI 304                       |
| Window material              | Polycarbonate                                           |
| Window gasket                | Elastomer                                               |
| Protection rating (EN 60529) | IP65                                                    |
| Dial                         | White, Aluminium                                        |
| Pointer                      | Black, Aluminium                                        |
| Movement material            | Stainless steel                                         |
| Safety according to EN 837-1 | S1, with window polycarbonate or Laminated safety glass |

#### Temperature

|                     |                               |
|---------------------|-------------------------------|
| Ambient temperature | -20°C ... +70°C               |
| Storage temperature | -40°C ... +70°C               |
| Media temperature   | -40°C ... +200°C (not filled) |

#### Wetted parts

|                             |                                    |
|-----------------------------|------------------------------------|
| Process connection material | Stainless steel 1.4404 / AISI 316L |
|-----------------------------|------------------------------------|

#### Wetted parts

|              |                                    |
|--------------|------------------------------------|
| Bourdon tube | Stainless steel 1.4404 / AISI 316L |
|--------------|------------------------------------|

#### Performance

|                                   |                                                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Accuracy according to EN 837-1    | Class 1.6                                                                                                          |
| Min. measuring range              | 0 ... 1 bar                                                                                                        |
| Max. measuring range              | 0 ... 400 bar                                                                                                      |
| Type of pressure                  | Gauge<br>Compound<br>Vacuum                                                                                        |
| Pressure limitation               | Steady: 75 % of full scale value<br>Fluctuating: 65 % of full scale value<br>Short time: 100 % of full scale value |
| Thermal drift (reference: +20 °C) | ± 0.4 % FS/10K                                                                                                     |

#### Weight

|       |                                |
|-------|--------------------------------|
| Gauge | 130 g unfilled<br>180 g filled |
|-------|--------------------------------|

#### Approval / Conformities

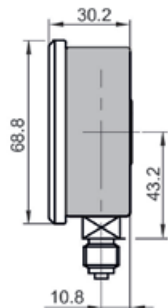
|      |                  |
|------|------------------|
| ATEX | Ex II 2 GDC-IM2c |
|------|------------------|

## MEX3 (Crimped bezel)

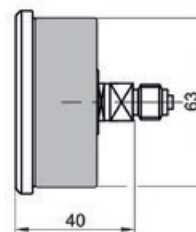
Industrial pressure gauges

MEX3-###.###/

### Dimensional drawings (mm)



Type D crimped version



Type F crimped version

### Measuring ranges

| Code | Bar        |
|------|------------|
| B72  | -1 ... 0.6 |
| B74  | -1 ... 1.5 |
| B76  | -1 ... 3   |
| B77  | -1 ... 5   |
| B79  | -1 ... 9   |
| B81  | -1 ... 15  |
| B82  | -1 ... 24  |
| B15  | 0 ... 1    |
| B16  | 0 ... 1.6  |
| B18  | 0 ... 2.5  |
| B19  | 0 ... 4    |
| B20  | 0 ... 6    |
| B22  | 0 ... 10   |
| B24  | 0 ... 16   |
| B26  | 0 ... 25   |
| B27  | 0 ... 40   |
| B29  | 0 ... 60   |
| B31  | 0 ... 100  |
| B33  | 0 ... 160  |
| B35  | 0 ... 250  |
| B38  | 0 ... 400  |

| Code | kPa            |
|------|----------------|
| D72  | -100 ... 60    |
| D74  | -100 ... 150   |
| D76  | -100 ... 300   |
| D77  | -100 ... 500   |
| D79  | -100 ... 900   |
| D81  | -100 ... 1 500 |
| D82  | -100 ... 2 400 |
| D15  | 0 ... 100      |
| D16  | 0 ... 160      |
| D18  | 0 ... 250      |
| D19  | 0 ... 400      |
| D20  | 0 ... 600      |
| D22  | 0 ... 1 000    |
| D24  | 0 ... 1 600    |
| D26  | 0 ... 2 500    |
| D27  | 0 ... 4 000    |
| D29  | 0 ... 6 000    |
| D31  | 0 ... 10 000   |
| D33  | 0 ... 16 000   |
| D35  | 0 ... 25 000   |
| D38  | 0 ... 40 000   |

| Code | kg/cm <sup>2</sup> |
|------|--------------------|
| F72  | -1 ... 0.6         |
| F74  | -1 ... 1.5         |
| F76  | -1 ... 3           |
| F77  | -1 ... 5           |
| F79  | -1 ... 9           |
| F81  | -1 ... 15          |
| F82  | -1 ... 24          |
| F15  | 0 ... 1            |
| F16  | 0 ... 1.6          |
| F18  | 0 ... 2.5          |
| F19  | 0 ... 4            |
| F20  | 0 ... 6            |
| F22  | 0 ... 10           |
| F24  | 0 ... 16           |
| F26  | 0 ... 25           |
| F27  | 0 ... 40           |
| F29  | 0 ... 60           |
| F31  | 0 ... 100          |
| F33  | 0 ... 160          |
| F35  | 0 ... 250          |
| F38  | 0 ... 400          |

| Code | psi             |
|------|-----------------|
| H73  | -30" Hg ... 15  |
| H75  | -30" Hg ... 30  |
| H2C  | -30" Hg ... 60  |
| H78  | -30" Hg ... 100 |
| H79  | -30" Hg ... 150 |
| H81  | -30" Hg ... 220 |
| H82  | -30" Hg ... 300 |
| H15  | 0 ... 15        |
| H1C  | 0 ... 20        |
| H17  | 0 ... 30        |
| H19  | 0 ... 60        |
| H21  | 0 ... 100       |
| H22  | 0 ... 160       |
| H23  | 0 ... 200       |
| H25  | 0 ... 300       |
| H26  | 0 ... 400       |
| H27  | 0 ... 600       |
| H30  | 0 ... 1 000     |
| H31  | 0 ... 1 500     |
| H34  | 0 ... 3 000     |
| H38  | 0 ... 6 000     |

# MEX3 (Crimped bezel)

Industrial pressure gauges

MEX3-###.###/

## Ordering reference

Ordering key - Configuration possibilities see website

|                                      | MEX3 | - | # | # | # | . | ### |
|--------------------------------------|------|---|---|---|---|---|-----|
| <b>Product</b>                       | MEX3 |   |   |   |   |   |     |
| <b>Case</b>                          |      |   |   |   |   |   |     |
| Case 1.4301 (304), bottom connection |      |   |   | D |   |   |     |
| Case 1.4301 (304), back connection   |      |   |   | F |   |   |     |
| <b>Process connection</b>            |      |   |   |   |   |   |     |
| G 1/4                                |      |   |   |   | 2 |   |     |
| 1/4 NPT                              |      |   |   |   | 5 |   |     |
| <b>Damping fluid</b>                 |      |   |   |   |   |   |     |
| without                              |      |   |   |   |   | 0 |     |
| BH1, Glycerin 86 %                   |      |   |   |   |   | 1 |     |
| BH2, Glycerin 99 %                   |      |   |   |   |   | 2 |     |
| BH3, Silicone oil                    |      |   |   |   |   | 3 |     |
| <b>Measuring range<sup>(1)</sup></b> |      |   |   |   |   |   |     |
| bar (EN)                             |      |   |   |   |   |   | Bxx |
| kPa (EN)                             |      |   |   |   |   |   | Dxx |
| MPa (EN)                             |      |   |   |   |   |   | Exx |
| kg/cm2 (EN)                          |      |   |   |   |   |   | Fxx |
| psi (ANSI)                           |      |   |   |   |   |   | Hxx |
| bar/psi (EN)                         |      |   |   |   |   |   | Kxx |
| psi/bar (ANSI)                       |      |   |   |   |   |   | Sxx |
| psi/kPa (ANSI)                       |      |   |   |   |   |   | Vxx |
| kPa/psi (EN)                         |      |   |   |   |   |   | Wxx |
| mbar (EN)                            |      |   |   |   |   |   | Nxx |

(1) Available standard measuring ranges, see table in section Measuring ranges. For ranges not listed, please contact Bourdon.

## Ordering example

|                                      | MEX3 | - | D | 2 | 0 | . | B20 | / | 0133 |
|--------------------------------------|------|---|---|---|---|---|-----|---|------|
| <b>Product</b>                       | MEX3 |   |   |   |   |   |     |   |      |
| <b>Case</b>                          |      |   |   |   |   |   |     |   |      |
| Case 1.4301 (304), bottom connection |      |   |   | D |   |   |     |   |      |
| <b>Process connection</b>            |      |   |   |   |   |   |     |   |      |
| G 1/4                                |      |   |   |   | 2 |   |     |   |      |
| <b>Damping fluid</b>                 |      |   |   |   |   |   |     |   |      |
| without                              |      |   |   |   |   | 0 |     |   |      |
| <b>Measuring range</b>               |      |   |   |   |   |   |     |   |      |
| 0 ... 6 bar (EN)                     |      |   |   |   |   |   | B20 |   |      |
| <b>Type of housing</b>               |      |   |   |   |   |   |     |   |      |
| Rolled housing                       |      |   |   |   |   |   |     |   | 0133 |

# MEX3 (Crimped bezel)

Industrial pressure gauges

MEX3-###.###/

Options

|                                    |      |                                            |      |
|------------------------------------|------|--------------------------------------------|------|
| Rolled housing <sup>(1)</sup>      | 0133 | 2.2 Certificate                            | Q002 |
| ATEX II2GDc T6-IM2c <sup>(2)</sup> | 0078 | 3.1 Material certificate                   | Q003 |
| Laminated safety glass             | 0751 | 3.1 Calibration certificate 5 pts (rising) | Q008 |
| Restrictor screw 0,3 mm            | 0769 | 3.1 Calibration certificate 5 pts (EN837)  | Q009 |
| 2.1 Certificate                    | Q001 |                                            |      |

- (1) Mandatory option  
(2) Only with laminated safety glass window

## MEX3 (Bayonet bezel)

Industrial pressure gauge

MEX3-###.###/

### Overview

- For corrosive gases and liquids
- Class 1.6 according to EN 837-1
- Wetted parts: Stainless steel
- Case with bayonet bezel



Picture similar



### Technical data

#### Housing

|                              |                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------|
| Nominal size                 | 63 mm                                                                             |
| Case material                | Stainless steel 1.4301 / AISI 304<br>Stainless steel 1.4404 / AISI 316L, optional |
| Type of housing              | Bayonet bezel                                                                     |
| Bezel ring material          | Stainless steel 1.4301 / AISI 304<br>Stainless steel 1.4404 / AISI 316L, optional |
| Window material              | Instrument glass                                                                  |
| Window gasket                | Elastomer                                                                         |
| Protection rating (EN 60529) | IP65                                                                              |
| Dial                         | White, Aluminium                                                                  |
| Pointer                      | Black, PVA                                                                        |
| Movement material            | Stainless steel                                                                   |
| Safety according to EN 837-1 | S1, with window polycarbonate or Laminated safety glass                           |

#### Temperature

|                     |                               |
|---------------------|-------------------------------|
| Ambient temperature | -20°C ... +70°C               |
| Storage temperature | -40°C ... +70°C               |
| Media temperature   | -40°C ... +200°C (not filled) |

#### Wetted parts

|                             |                                    |
|-----------------------------|------------------------------------|
| Process connection material | Stainless steel 1.4404 / AISI 316L |
| Bourdon tube                | Stainless steel 1.4404 / AISI 316L |

#### Performance

|                                   |                                                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Accuracy according to EN 837-1    | Class 1.6                                                                                                          |
| Min. measuring range              | 0 ... 1 bar                                                                                                        |
| Max. measuring range              | 0 ... 1000 bar                                                                                                     |
| Type of pressure                  | Gauge<br>Compound<br>Vacuum                                                                                        |
| Pressure limitation               | Steady: 75 % of full scale value<br>Fluctuating: 65 % of full scale value<br>Short time: 100 % of full scale value |
| Thermal drift (reference: +20 °C) | ± 0.4 % FS/10K                                                                                                     |

#### Weight

|       |                                |
|-------|--------------------------------|
| Gauge | 130 g unfilled<br>180 g filled |
|-------|--------------------------------|

#### Approval / Conformities

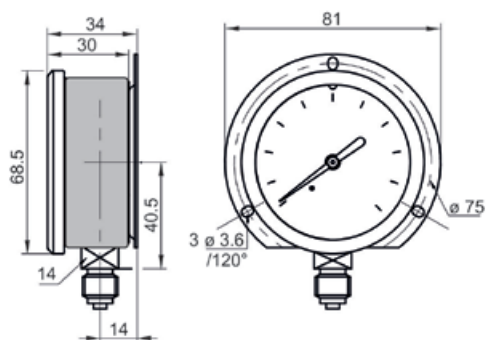
|      |                  |
|------|------------------|
| ATEX | Ex II 2 GDC-IM2c |
|------|------------------|

## MEX3 (Bayonet bezel)

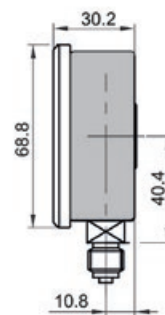
Industrial pressure gauge

MEX3-###.###/

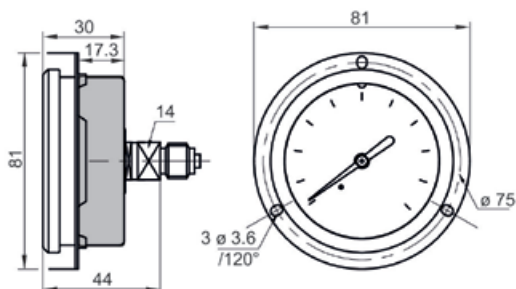
### Dimensional drawings (mm)



Type A

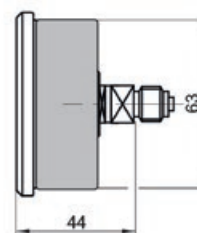


Type D

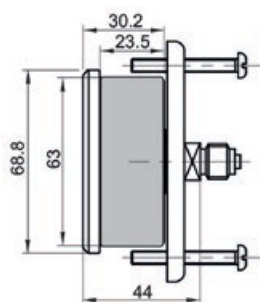


Type B

Panel cut-outs:  $\varnothing = 65.5$  mm



Type F



Type G

Panel cut-outs:  $\varnothing = 65.5$  mm

# MEX3 (Bayonet bezel)

Industrial pressure gauge

MEX3-###.###/

## Measuring ranges

| Code | Bar         | Code | kPa            | Code | kg/cm <sup>2</sup> | Code | psi             |
|------|-------------|------|----------------|------|--------------------|------|-----------------|
| B59  | -1 ... 0    | D59  | -100 ... 0     | F59  | -1 ... 0           | H59  | -30" Hg ... 0   |
| B72  | -1 ... 0.6  | D72  | -100 ... 60    | F72  | -1 ... 0.6         | H73  | -30" Hg ... 15  |
| B74  | -1 ... 1.5  | D74  | -100 ... 150   | F74  | -1 ... 1.5         | H75  | -30" Hg ... 30  |
| B76  | -1 ... 3    | D76  | -100 ... 300   | F76  | -1 ... 3           | H2C  | -30" Hg ... 60  |
| B77  | -1 ... 5    | D77  | -100 ... 500   | F77  | -1 ... 5           | H78  | -30" Hg ... 100 |
| B79  | -1 ... 9    | D79  | -100 ... 900   | F79  | -1 ... 9           | H79  | -30" Hg ... 150 |
| B81  | -1 ... 15   | D81  | -100 ... 1 500 | F81  | -1 ... 15          | H81  | -30" Hg ... 220 |
| B82  | -1 ... 24   | D82  | -100 ... 2 400 | F82  | -1 ... 24          | H82  | -30" Hg ... 300 |
| B15  | 0 ... 1     | D15  | 0 ... 100      | F15  | 0 ... 1            | H15  | 0 ... 15        |
| B16  | 0 ... 1.6   | D16  | 0 ... 160      | F16  | 0 ... 1.6          | H1C  | 0 ... 20        |
| B18  | 0 ... 2.5   | D18  | 0 ... 250      | F18  | 0 ... 2.5          | H17  | 0 ... 30        |
| B19  | 0 ... 4     | D19  | 0 ... 400      | F19  | 0 ... 4            | H19  | 0 ... 60        |
| B20  | 0 ... 6     | D20  | 0 ... 600      | F20  | 0 ... 6            | H21  | 0 ... 100       |
| B22  | 0 ... 10    | D22  | 0 ... 1 000    | F22  | 0 ... 10           | H22  | 0 ... 160       |
| B24  | 0 ... 16    | D24  | 0 ... 1 600    | F24  | 0 ... 16           | H23  | 0 ... 200       |
| B26  | 0 ... 25    | D26  | 0 ... 2 500    | F26  | 0 ... 25           | H25  | 0 ... 300       |
| B27  | 0 ... 40    | D27  | 0 ... 4 000    | F27  | 0 ... 40           | H26  | 0 ... 400       |
| B29  | 0 ... 60    | D29  | 0 ... 6 000    | F29  | 0 ... 60           | H27  | 0 ... 600       |
| B31  | 0 ... 100   | D31  | 0 ... 10 000   | F31  | 0 ... 100          | H30  | 0 ... 1 000     |
| B33  | 0 ... 160   | D33  | 0 ... 16 000   | F33  | 0 ... 160          | H31  | 0 ... 1 500     |
| B35  | 0 ... 250   | D35  | 0 ... 25 000   | F35  | 0 ... 250          | H34  | 0 ... 3 000     |
| B38  | 0 ... 400   | D38  | 0 ... 40 000   | F38  | 0 ... 400          | H38  | 0 ... 6 000     |
| B39  | 0 ... 600   | D39  | 0 ... 60 000   | F39  | 0 ... 600          | H40  | 0 ... 10 000    |
| B41  | 0 ... 1 000 |      |                | F41  | 0 ... 1 000        | H41  | 0 ... 15 000    |

# MEX3 (Bayonet bezel)

Industrial pressure gauge

MEX3-###.###/

## Ordering reference

Ordering key - Configuration possibilities see website

|                                                                               | MEX3 | - | # | # | # | . | ###        |
|-------------------------------------------------------------------------------|------|---|---|---|---|---|------------|
| <b>Product</b>                                                                | MEX3 |   |   |   |   |   |            |
| <b>Case</b>                                                                   |      |   |   |   |   |   |            |
| Case 1.4301 (304), bottom connection, back fixing for wall mounting           |      |   |   | A |   |   |            |
| Case 1.4301 (304), back connection, front flange, 3 holes for panel mounting  |      |   |   | B |   |   |            |
| <b>Case 1.4301 (304), bottom connection</b>                                   |      |   |   | D |   |   |            |
| <b>Case 1.4301 (304), back connection</b>                                     |      |   |   | F |   |   |            |
| Case 1.4301 (304), back connection, fixing clamp for panel mounting           |      |   |   | G |   |   |            |
| Case 1.4404 (316L), bottom connection, back fixing for wall mounting          |      |   |   | 1 |   |   |            |
| Case 1.4404 (316L), back connection, front flange, 3 holes for panel mounting |      |   |   | 2 |   |   |            |
| Case 1.4404 (316L), bottom connection                                         |      |   |   | 4 |   |   |            |
| Case 1.4404 (316L), back connection                                           |      |   |   | 6 |   |   |            |
| Case 1.4404 (316L), back connection, fixing clamp for panel mounting          |      |   |   | 7 |   |   |            |
| <b>Process connection</b>                                                     |      |   |   |   |   |   |            |
| G 1/8                                                                         |      |   |   | 1 |   |   |            |
| <b>G 1/4</b>                                                                  |      |   |   | 2 |   |   |            |
| 1/8 NPT                                                                       |      |   |   | 4 |   |   |            |
| <b>1/4 NPT</b>                                                                |      |   |   | 5 |   |   |            |
| M10 x 1                                                                       |      |   |   | 7 |   |   |            |
| <b>Damping fluid</b>                                                          |      |   |   |   |   |   |            |
| <b>without</b>                                                                |      |   |   | 0 |   |   |            |
| BH1, Glycerin 86 %                                                            |      |   |   | 1 |   |   |            |
| BH2, Glycerin 99 %                                                            |      |   |   | 2 |   |   |            |
| BH3, Silicone oil                                                             |      |   |   | 3 |   |   |            |
| BH4, Silicone oil (for lower temperatures)                                    |      |   |   | 4 |   |   |            |
| BH5, Fluorinated oil                                                          |      |   |   | 5 |   |   |            |
| <b>Measuring range<sup>(1)</sup></b>                                          |      |   |   |   |   |   |            |
| <b>bar (EN)</b>                                                               |      |   |   |   |   |   | <b>Bxx</b> |
| <b>kPa (EN)</b>                                                               |      |   |   |   |   |   | <b>Dxx</b> |
| MPa (EN)                                                                      |      |   |   |   |   |   | Exx        |
| kg/cm <sup>2</sup> (EN)                                                       |      |   |   |   |   |   | Fxx        |
| <b>psi (ANSI)</b>                                                             |      |   |   |   |   |   | <b>Hxx</b> |
| bar/psi (EN)                                                                  |      |   |   |   |   |   | Kxx        |
| psi/bar (ANSI)                                                                |      |   |   |   |   |   | Sxx        |
| psi/kPa (ANSI)                                                                |      |   |   |   |   |   | Vxx        |
| kPa/psi (EN)                                                                  |      |   |   |   |   |   | Wxx        |
| mbar (EN)                                                                     |      |   |   |   |   |   | Nxx        |

(1) Available standard measuring ranges, see table in section Measuring ranges. For ranges not listed, please contact Bourdon.

## Ordering example

|                | MEX3 | - | 4 | 2 | 0 | . | B22 | / | Q001 |
|----------------|------|---|---|---|---|---|-----|---|------|
| <b>Product</b> | MEX3 |   |   |   |   |   |     |   |      |
| MEX3           | MEX3 |   |   |   |   |   |     |   |      |

# MEX3 (Bayonet bezel)

Industrial pressure gauge

MEX3-###.###/

## Ordering reference

### Ordering example

MEX3 - 4 2 0 . B22 / Q001

### Case

Case 1.4404 (316L), bottom connection

4

### Process connection

G 1/4

2

### Damping fluid

without

0

### Measuring range

0 ... 10 bar (EN)

B22

### Certificate

Declaration of compliance with the order 2.1  
according to EN 10204

Q001

## Options

|                                    |      |                                            |      |
|------------------------------------|------|--------------------------------------------|------|
| ATEX II2GDc T6-IM2c <sup>(1)</sup> | 0078 | Accuracy class 1                           | 0841 |
| Adjustable friction pointer        | 0679 | 2.1 Certificate                            | Q001 |
| Pointer aluminium, black           | 0683 | 2.2 Certificate                            | Q002 |
| Laminated safety glass             | 0751 | 3.1 Material certificate                   | Q003 |
| Polycarbonate (Makrolon) window    | 0753 | 3.1 Calibration certificate 5 pts (rising) | Q008 |
| Restrictor screw 0,3 mm            | 0769 | 3.1 Calibration certificate 5 pts (EN837)  | Q009 |
| Solid drawn bourdon tube           | 0816 |                                            |      |

(1) Only with laminated safety glass window

DISTRIBUTOR



Metalgangen 13  
DK-2690 Karlslunde  
Danmark  
+(45) 73 84 12 30  
info@pgflowtechnik.dk  
www.pgflowtechnik.dk