# Bourdon tube pressure gauges // industrial version

## Types MRE and MRE-g




*Type MRE-g*

### Highlights

- Suitable for outdoor use - Closed system
- Case complete stainless steel
- Without electrical auxiliary power

| Technical data | |
|---|---|
| **Type** | MRE / MRE-g |
| **Version** | Bayonet ring case or crimped-on ring case |
| **Nominal size** | 63 mm |
| **Accuracy** | EN 837-1, class 1.6 and class 2.5 (for display ranges 0...600 bar and 0...1000 bar) |
| **Medium / Application** | Liquid and gaseous media |
| **Process connection** | Thread see table , brass, optional stainless steel |
| **Measurement system** | Bourdon spring bronze, optional stainless steel |
| **Degree of protection according to EN 60529** | IP54 (IP65 for filled cases with closed pressure compensation insert) |
| **Ambient temperature** | -40 to 60 °C (-20 to 60 °C with case filling) |
| **Storage temperature** | -40 to 70 °C (-20 to 70 °C with case filling) |
| **Medium temperature** | Devices with brass connection max. 60 °C<br>Devices with stainless steel connection max. 200 °C (max. 100 °C with case filling) |
| **Nominal use temperature** | 20 °C* |
| **Pressure load capacity** | **Of full-scale value** |
| → **Resting load**<br>→ **Dynamic load**<br>→ **Overload** | 75 %<br>65 %<br>Max. |
| **Approvals** | |
| | DNV |

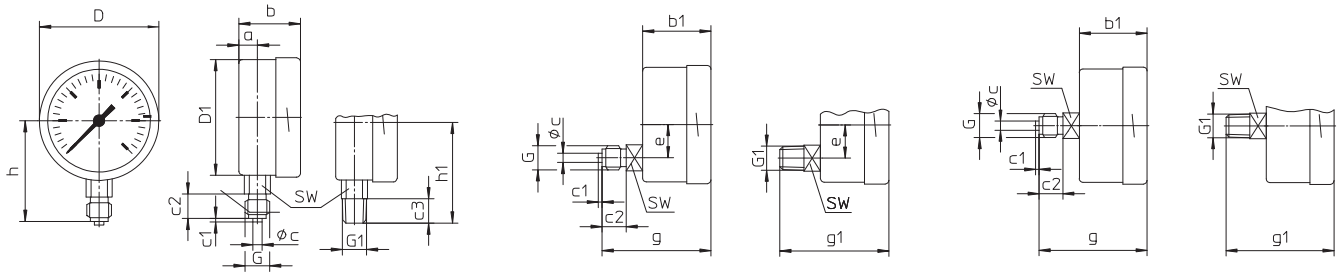
* The pressure gauges are calibrated at a reference temperature of 20 °C. At other operating temperatures the maximum indication error is ±0.4 % of full scale value per 10 °C difference in accordance with EN 837-1.


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# Types and dimensions // bayonet ring case

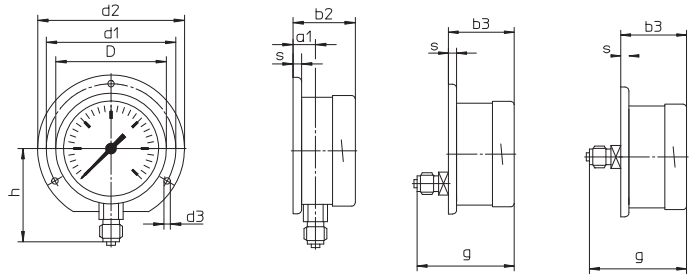
## Without mounting flange

Bottom connection, lower back connection or central back connection




## With rear flange

Bottom connection, lower back connection* or central back connection*

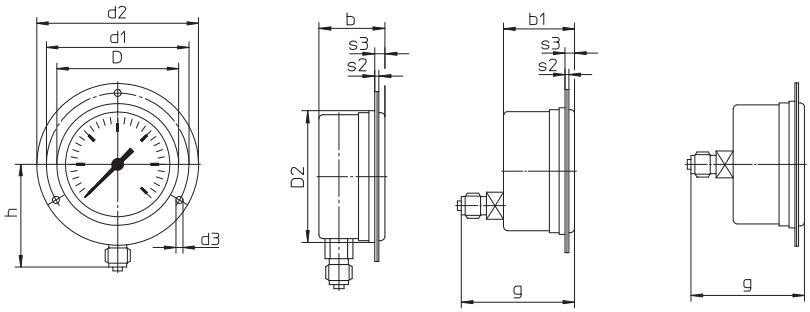



* Versions available on request, but not recommended by EN 837-1.

** Front flange with oval holes and separate trim ring, recommended panel cut out Ø 67 ± 0.3 mm

## With front flange**

Bottom connection*, lower back connection or central back connection




| Dimensions [mm] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NS** | **D** | **D1** | **D2** | **a** | **a1** | **b** | **b1** | **b2** | **b3** | **c** | **c1** | **c2** | **c3** | **d1** | **d2** |
| 63 | 64 | 62 | 66 | 10 | 13 | 33 | 37 | 36 | 40 | 5 | 2 | 13 | 13 | 75 | 85 |

| Dimensions [mm] | | | | | | | | | | | | | Weight [kg] (approx.)* | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NS** | **d3** | **e** | **G** | **G1** | **g** | **g1** | **h** | **h1** | **s** | **s2** | **s3** | **SW** | **unfilled** | **filled** |
| 63 | 3.6 | 18 | G¼ B<br>M12 x 1.5 | ¼ NPT | 59 | 59 | 54 | 54 | 5 | 2 | 5.5 | 14 | 0.18 | 0.25 |

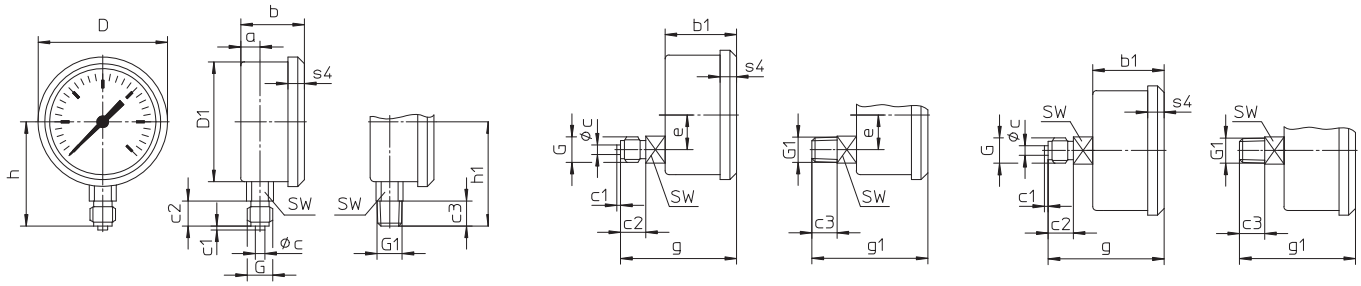
* Data applies to versions without mounting flange


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# Types and dimensions // crimped-on ring case

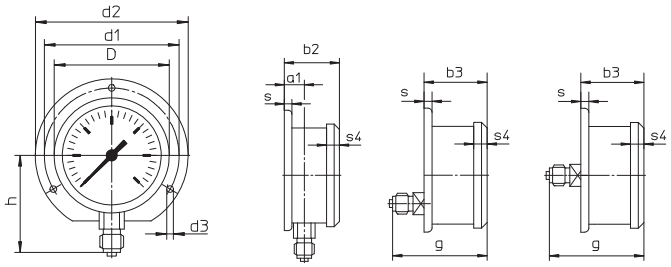
### Without mounting flange

Bottom connection, lower back connection or central back connection



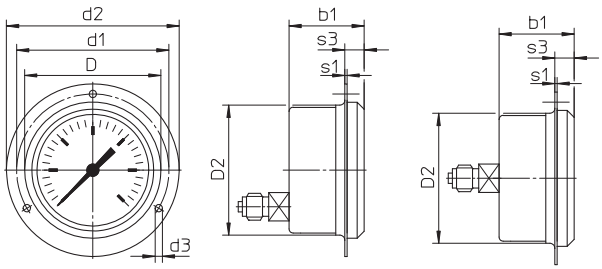

### With rear flange

Bottom connection, lower back connection*
or central back* connection



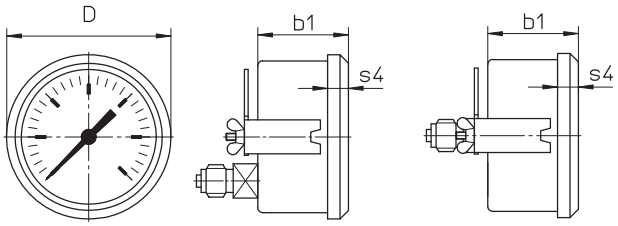

### With front flange**

Lower back connection or central back connection




### With u-clamp***

Lower back connection or central back connection




* Versions available on request, but not recommended by EN 837-1
** Recommended panel cut out Ø 67 ± 0.3 mm
*** Recommended panel cut out Ø 64 ± 0.3 mm

| Dimensions [mm] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NS** | **D** | **D1** | **D2** | **a** | **a1** | **b** | **b1** | **b2** | **b3** | **c** | **c1** | **c2** | **c3** | **d1** | **d2** |
| 63 | 67 | 62 | 64 | 10 | 13 | 33 | 37 | 36 | 40 | 5 | 2 | 13 | 13 | 75 | 85 |

| Dimensions [mm] | | | | | | | | | | | | | Weight [kg] (approx.)* | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NS** | **d3** | **e** | **G** | **G1** | **g** | **g1** | **h±1** | **h1±1** | **s** | **s1** | **s3** | **s4** | **SW** | **unfilled** | **filled** |
| 63 | 3.6 | 18 | G¼ B<br>M12 x 1.5 | ¼ NPT | 60 | 60 | 54 | 54 | 5 | 1 | 9.5 | 8.5 | 14 | 0.18 | 0.25 |

* Data applies to versions without mounting flange

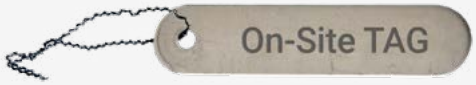
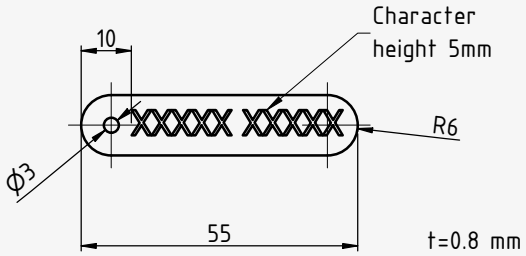

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# Article numbers

| Order code | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Bourdon tube pressure gauges, industrial version** | | | | | | | | | |
| Bayonet ring case | | MRE | | | | | | | |
| Crimped-on ring case | | MREG | | | | | | | |
| **Nominal size** | | | | | | | | | |
| 63 mm | | | 1 | | | | | | |
| **Connection thread** | | | | | | | | | |
| G¼ B bottom | | | | 1 | | | | | |
| G¼ B lower back connection | | | | 2 | | | | | |
| G¼ B central back connection | | | | 5 | | | | | |
| ¼ NPT bottom | | | | M | | | | | |
| ¼ NPT lower back connection | | | | N | | | | | |
| ¼ NPT central back connection | | | | S | | | | | |
| M12 x 1.5 bottom | | | | 3 | | | | | |
| M12 x 1.5 lower back connection | | | | 4 | | | | | |
| M12 x 1.5 central back connection | | | | 6 | | | | | |
| **Connection material** | | | | | | | | | |
| Brass | | | | | 1 | | | | |
| Stainless steel | | | | | 3 | | | | |
| **Display ranges** | | | | | | | | | |
| -1...0 bar | | | | | | 315 | | | |
| -1...0.6 bar | | | | | | 505 | | | |
| -1...1.5 bar | | | | | | 515 | | | |
| -1...3 bar | | | | | | 525 | | | |
| -1...5 bar | | | | | | 535 | | | |
| -1...9 bar | | | | | | 545 | | | |
| -1...15 bar | | | | | | 555 | | | |
| 0...0.6 bar | | | | | | 015 | | | |
| 0...1 bar | | | | | | 025 | | | |
| 0...1.6 bar | | | | | | 035 | | | |
| 0...2.5 bar | | | | | | 045 | | | |
| 0...4 bar | | | | | | 055 | | | |
| 0...6 bar | | | | | | 065 | | | |
| 0...10 bar | | | | | | 075 | | | |
| 0...16 bar | | | | | | 085 | | | |
| 0...25 bar | | | | | | 095 | | | |
| 0...40 bar | | | | | | 105 | | | |
| 0...60 bar | | | | | | 115 | | | |
| 0...100 bar | | | | | | 125 | | | |
| 0...160 bar | | | | | | 135 | | | |
| 0...250 bar | | | | | | 145 | | | |
| 0...400 bar | | | | | | 155 | | | |
| 0...600 bar | | | | | | 165 | | | |
| 0...1000 bar | only with crimped-on ring case (connection material stainless steel) | | | | | 175 | | | |
| **Mounting flange** | | | | | | | | | |
| None | | | | | | | 0 | | |
| Rear flange | | | | | | | 1 | | |
| Front flange | | | | | | | 2 | | |
| U-clamp | only with crimped-on ring case | | | | | | 3 | | |
| **Options** | | | | | | | | | |
| None | | | | | | | | 0 | |
| **Filled case** | | | | | | | | | |
| Unfilled case | | | | | | | | | 0 |
| Filled case (glycerine) | | | | | | | | | G |
| **Example order number** | | **MRE** | **1** | **1** | **1** | **315** | **0** | **0** | **0** |


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# Accessories

| Accessories | Article number |
|---|---|
| **Measuring point designation**<br>Laser-inscribed stainless steel plate with fixing wire for easy attachment to measuring points<br><br>→ **Scope of delivery:** Designation plate inscribed according to specification and enclosed fixing wire (sealing wire)<br>→ **Fastening:** Wire (included in delivery), alternatively sealing, cable ties or similar (not included in delivery)<br>→ **Materials:** Plate stainless steel 1.4571, wire stainless steel<br>→ **Dimensions:** Plate 55 x 10 x 0.8 mm, wire length 180 mm<br>→ **Inscription:** one-sided, single-line, max. 11 characters, character height 5 mm, designation width max. 40 mm, letters, numbers, symbols, barcodes, QR codes<br>→ **Transmission of designations:** digital list, file formats Excel, Word or CSV<br><br><br> | **ONSITETAG** |