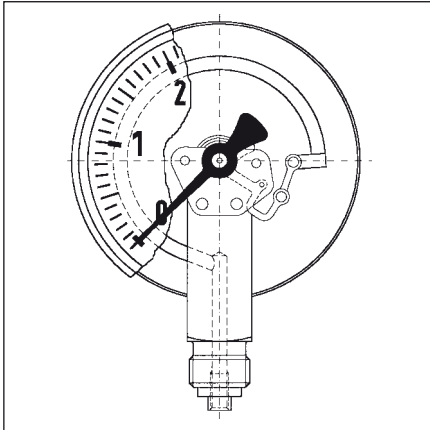


# Standard Bourdon tube pressure gauges EN 837-1



## Application

For gaseous and liquid media which are not highly viscous, do not crystallize and do not attack copper alloys.

! When measuring gas or vapour, the instruments must be used in accordance with the safety recommendations of EN 837-2 (see appendix).

## Type

D 1

## Nominal size

40 – 50 – 63 – 80 – 100

## Accuracy class (EN 837-1/6)

1.6

## Ranges (EN 837-1/5)

-1/0 to -1/+15 bar  
0/0.6 to 0/400 bar

## Application area

Static load:  
 $\frac{3}{4}$  x full scale value  
Dynamic load:  
 $\frac{2}{3}$  x full scale value  
Short term:  
full scale value

## Operating temperature range

Medium:  $T_{max} = +60\text{ °C}$   
Ambient:  $T_{min} = -20\text{ °C}$   
 $T_{max} = +60\text{ °C}$

## Temperature performance

Indication error when the temperature of the measuring element deviates from 20 °C:

rising temp. approx.  $\pm 0.4\%$  /10 K  
falling temp. approx.  $\pm 0.4\%$  /10 K  
percentage of full scale value

## Protection

IP 32 (EN 60529)

## Standard version

### Connection

Brass, bottom or centre back  
NG 40 G $\frac{1}{8}$ B – spanner size 12  
NG 50-63 G $\frac{1}{4}$ B – spanner size 14  
NG 80-100 bottom G $\frac{1}{2}$ B – spanner size 22  
NG 80-100 centre back G $\frac{1}{4}$ B – spanner size 14 (EN 837-1/7.3)

## Measuring element

Bourdon tube element, copper alloy  
 $\leq 60$  bar „C“ type bourdon tube  
 $> 60$  bar helical tube

## Movement

Brass

## Dial

Plastic, white  
Dial marking black

## Pointer

Plastic, black

## Housing

Black ABS, highly impact resistant and corrosion resistant

## Front glass

Clip-in plastic  
NG 80-100 with adjustable red reference pointer

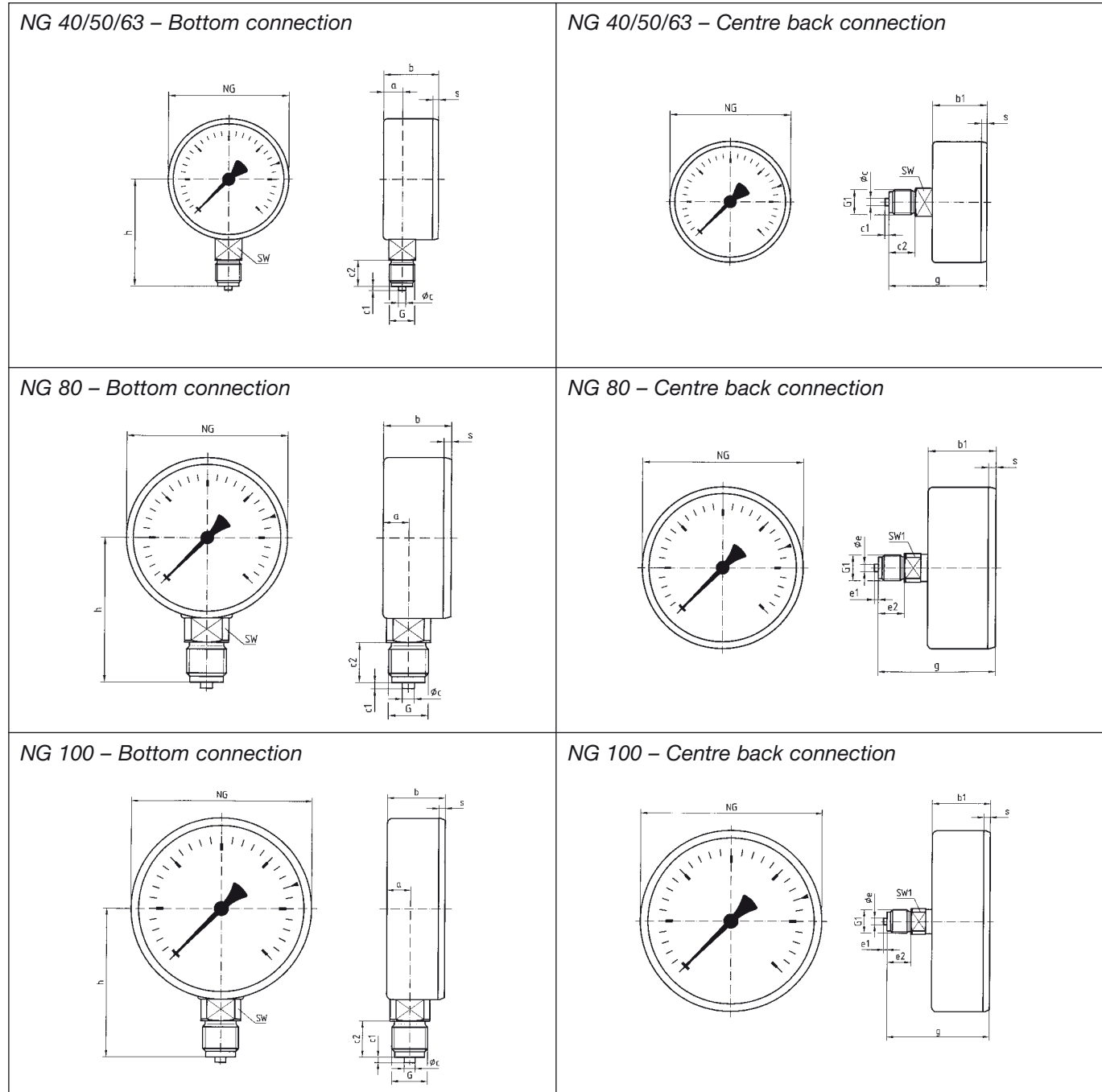
## Options

- Damping screw
- Reference pointer

# Standard Bourdon tube pressure gauges

## Type D 1 – NG 40/50/63/80/100

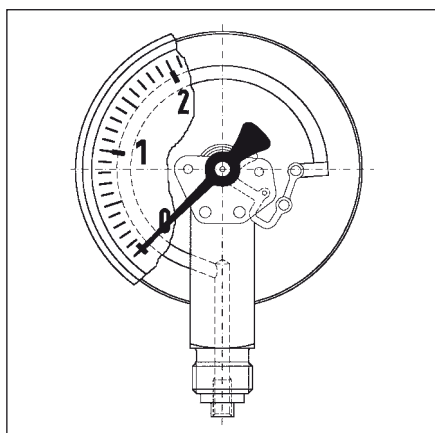
### Housing types and dimensions



### Dimensions (mm)

| Nominal size (NG) | a    | b    | b1   | $\phi_c$ | c1 | c2 | $\phi_e$ | e1 | e2 | g    | G                               | G1                              | h    | s   | SW | SW1 |
|-------------------|------|------|------|----------|----|----|----------|----|----|------|---------------------------------|---------------------------------|------|-----|----|-----|
| 40                | 9.5  | 25   | 25   | 4        | 2  | 10 | -        | -  | -  | 41.5 | G <sup>1</sup> / <sub>8</sub> B | G <sup>1</sup> / <sub>8</sub> B | 36   | 3   | 12 | -   |
| 50                | 10.3 | 26.8 | 27.1 | 5        | 2  | 13 | -        | -  | -  | 47.1 | G <sup>1</sup> / <sub>4</sub> B | G <sup>1</sup> / <sub>4</sub> B | 45   | 3.8 | 14 | -   |
| 63                | 9.8  | 29.7 | 30.4 | 5        | 2  | 13 | -        | -  | -  | 50.4 | G <sup>1</sup> / <sub>4</sub> B | G <sup>1</sup> / <sub>4</sub> B | 51.5 | 3.7 | 14 | -   |
| 80                | 12.8 | 32.8 | 32.8 | 6        | 3  | 20 | 5        | 2  | 13 | 55.8 | G <sup>1</sup> / <sub>2</sub> B | G <sup>1</sup> / <sub>4</sub> B | 72   | 2.8 | 22 | 14  |
| 100               | 15.5 | 34.5 | 32   | 6        | 3  | 20 | 5        | 2  | 13 | 55   | G <sup>1</sup> / <sub>2</sub> B | G <sup>1</sup> / <sub>4</sub> B | 82   | 3.5 | 22 | 14  |
|                   |      |      |      |          |    |    |          |    |    |      |                                 |                                 |      |     |    |     |
|                   |      |      |      |          |    |    |          |    |    |      |                                 |                                 |      |     |    |     |

# Standard Bourdon tube pressure gauges EN 837-1



## Application

For gaseous and liquid media which are not highly viscous, do not crystallize and do not attack copper alloys.

! When measuring gas or vapour, the instruments must be used in accordance with the safety recommendations of EN 837-2 (see appendix).

## Type

D 2/D 3

## Nominal size

40 - 50 - 63

## Accuracy class (EN 837-1/6)

1.6

## Ranges (EN 837-1/5)

-1/0 to -1/+15 bar

0/0.6 to 0/400 bar

## Application area

Static load:

$\frac{3}{4}$  x full scale value

Dynamic load:

$\frac{2}{3}$  x full scale value

Short term:

full scale value

## Operating temperature range

Medium:  $T_{max} = +60 \text{ }^\circ\text{C}$

Ambient:  $T_{min} = -20 \text{ }^\circ\text{C}$

$T_{max} = +60 \text{ }^\circ\text{C}$

## Temperature performance

Indication error when the temperature of the measuring element deviates from 20 °C:

rising temp. approx.  $\pm 0,4 \text{ } \%/10 \text{ K}$

falling temp. approx.  $\pm 0,4 \text{ } \%/10 \text{ K}$

percentage of full scale value

## Protection

IP 32 (EN 60 529)

## Standard version

### Connection

Brass, bottom or centre back

NG 40 G $\frac{1}{8}$ B – spanner size 12

NG 50-63 G $\frac{1}{4}$ B – spanner size 14  
(EN 837-1/7.3)

### Measuring element

Bourdon tube element, copper alloy

$\leq 60 \text{ bar}$  „C“ type bourdon tube

$> 60 \text{ bar}$  helical tube

## Movement

Brass

## Dial

Plastic, white

Dial marking black

## Pointer

Plastic, black

## Housing

D 2 – black sheet steel

D 3 – stainless steel 304

## Front glass

Clip-in plastic

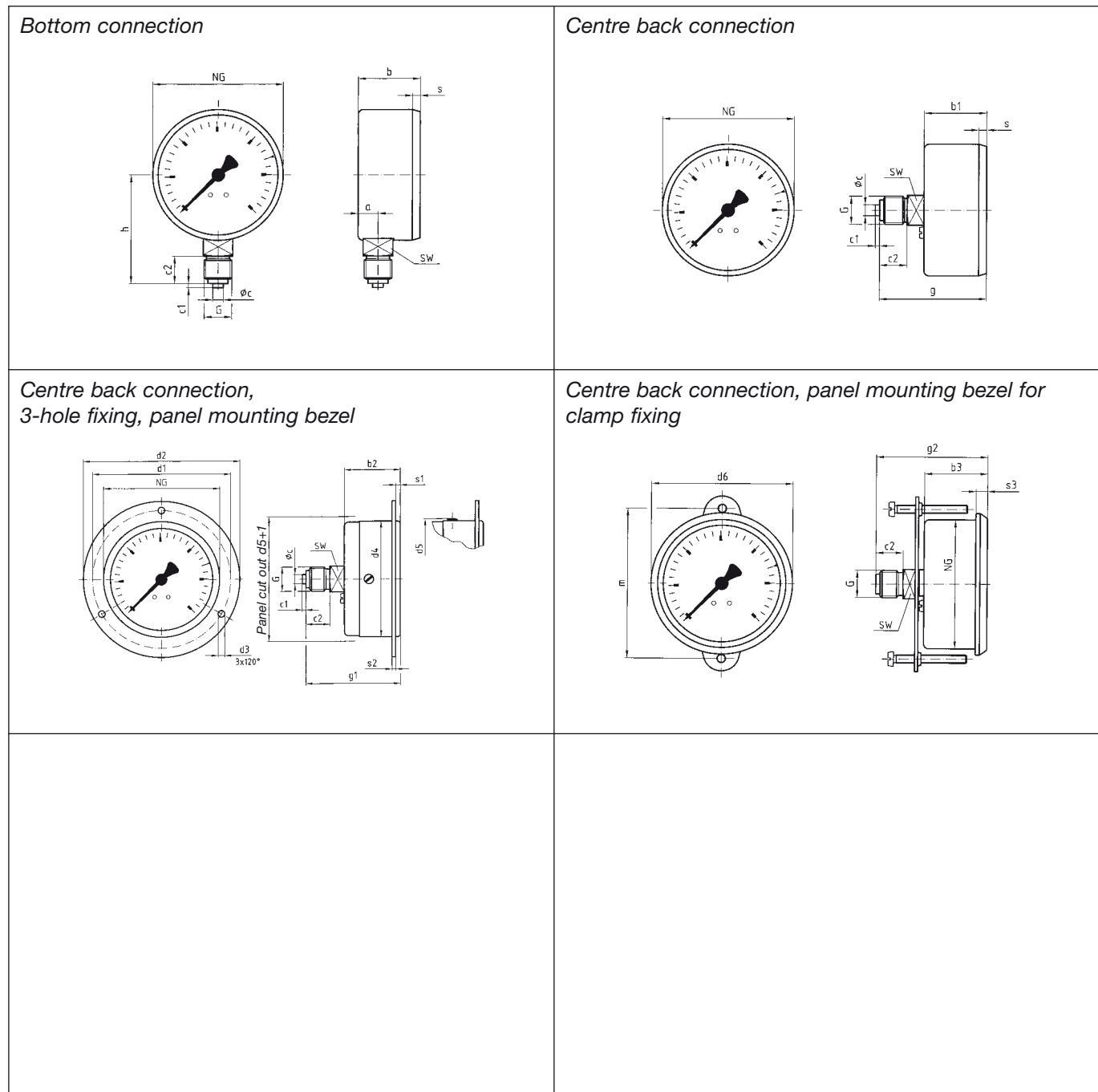
## Options

- Panel mounting bezel for clamp fixing
- 3-hole fixing panel mounting bezel
- Damping screw
- Reference pointer

# Standard Bourdon tube pressure gauges

Type D 2/D 3 – NG 40/50/63

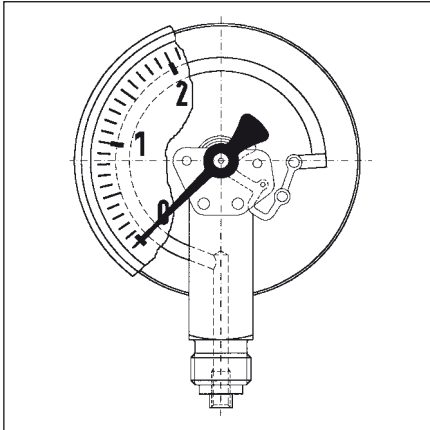
Housing types and dimensions



Dimensions (mm)

| Nominal size (NG) | a    | b    | b1   | b2   | b3   | Øc | c1 | c2 | d1 | d2 | d3  | d4 | d5   | d6   | g    | g1   | g2   | G                               | h    | m  |
|-------------------|------|------|------|------|------|----|----|----|----|----|-----|----|------|------|------|------|------|---------------------------------|------|----|
| 40                | 8.5  | 23.5 | 25   | 26   | 28   | 4  | 2  | 10 | 51 | 61 | 3.6 | 41 | 45   | 44   | 41.5 | 42.5 | 46.6 | G <sup>1</sup> / <sub>8</sub> B | 36   | 50 |
| 50                | 10.5 | 26   | 26   | 27.5 | 30.3 | 5  | 2  | 13 | 60 | 71 | 3.6 | 50 | 54   | 54   | 47   | 49   | 51.3 | G <sup>1</sup> / <sub>4</sub> B | 45   | 58 |
| 63                | 9.5  | 29.4 | 29.4 | 30.3 | 30.3 | 5  | 2  | 13 | 75 | 85 | 3.6 | 63 | 66.5 | 67.8 | 50.4 | 51.3 | 53.3 | G <sup>1</sup> / <sub>4</sub> B | 51.5 | 72 |
| Nominal size (NG) | s    | s1   | s2   | s3   | SW   |    |    |    |    |    |     |    |      |      |      |      |      |                                 |      |    |
| 40                | 3    | 2.5  | 2    | 5.2  | 12   |    |    |    |    |    |     |    |      |      |      |      |      |                                 |      |    |
| 50                | 3.8  | 2.5  | 2    | 5.4  | 14   |    |    |    |    |    |     |    |      |      |      |      |      |                                 |      |    |
| 63                | 3.7  | 2.5  | 2    | 5.6  | 14   |    |    |    |    |    |     |    |      |      |      |      |      |                                 |      |    |

# Rohrfeder-Standardmanometer EN 837-1



## Application

For gaseous and liquid media which are not highly viscous, do not crystallize and do not attack copper alloys.

! When measuring gas or vapour, the instruments must be used in accordance with the safety recommendations of EN 837-2 (see appendix).

## Type

D 2

## Nominal size

80 – 100

## Accuracy class (EN 837-1/6)

1.6

## Ranges (EN 837-1/5)

-1/0 to -1/+15 bar

0/0.6 to 0/400 bar

## Application area

Static load:

$\frac{3}{4}$  x full scale value

Dynamic load:

$\frac{2}{3}$  x full scale value

Short term:

full scale value

## Operating temperature range

Medium:  $T_{max} = +60 \text{ }^\circ\text{C}$

Ambient:  $T_{min} = -20 \text{ }^\circ\text{C}$

$T_{max} = +60 \text{ }^\circ\text{C}$

## Temperature performance

Indication error when the temperature of the measuring element deviates from 20 °C:

rising temp. approx.  $\pm 0.4 \text{ } \%/10 \text{ K}$

falling temp. approx.  $\pm 0.4 \text{ } \%/10 \text{ K}$

percentage of full scale value

## Protection

IP 32 (EN 60529)

## Standard version

### Connection

Brass, bottom:

NG 80 – 100 G $\frac{1}{2}$ B – spanner size 22

Brass, centre back

NG 80 – 100 G $\frac{1}{4}$ B – spanner size 14

(EN 837-1/7.3)

### Measuring element

Bourdon tube element, copper alloy

$\leq 60 \text{ bar}$  „C“ type bourdon tube

$> 60 \text{ bar}$  helical tube

## Movement

Brass

## Dial

Plastic, white

Dial marking black

## Pointer

Plastic, black

## Housing

Sheet steel, black

## Front glass

Clip-in plastic with adjustable red reference pointer

## Options

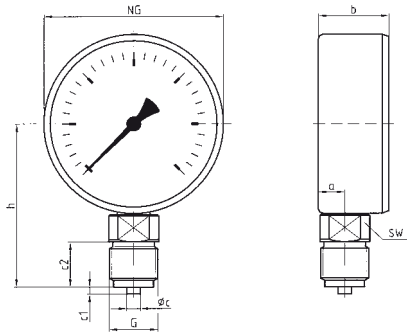
- Stainless steel housing (NG 100)
- Push on bezel
- Instrument grade front glass
- 3-hole fixing, panel mounting bezel
- Damping screw
- Reference pointer

# Standard Bourdon tube pressure gauges

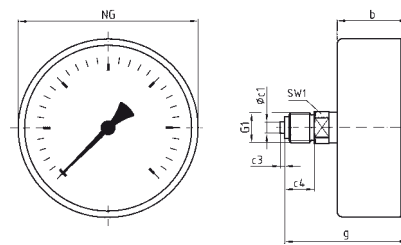
Type D 2 – NG 80/100

Housing types and dimensions (in mm)

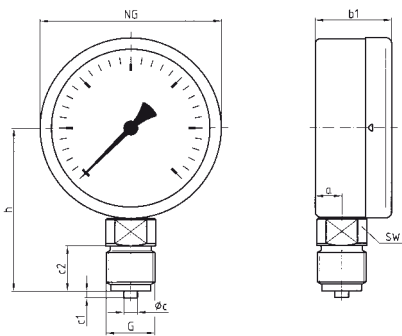
Bottom connection



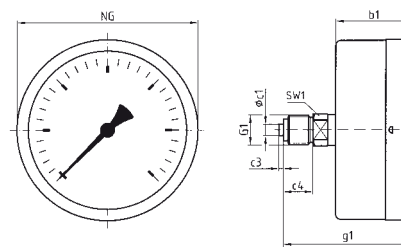
Centre back connection



Bottom connection, with push-on bezel



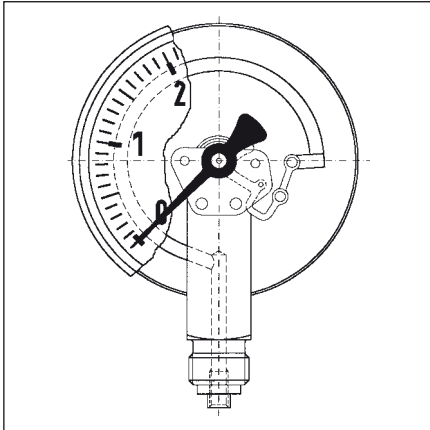
Centre back connection, with push-on bezel



Dimensions (mm)

| Nominal size (NG) | a    | b    | b1   | Øc | c1 | c2 | Øc1 | c3 | c4 | g    | g1   | G                               | G1                              | h  | SW | SW1 |
|-------------------|------|------|------|----|----|----|-----|----|----|------|------|---------------------------------|---------------------------------|----|----|-----|
| 80                | 11.7 | 31   | 33.5 | 6  | 3  | 20 | 5   | 2  | 13 | 54   | 56.5 | G <sup>1</sup> / <sub>2</sub> B | G <sup>1</sup> / <sub>4</sub> B | 72 | 22 | 14  |
| 100               | 11   | 29.5 | 34   | 6  | 3  | 20 | 5   | 2  | 13 | 52.5 | 57   | G <sup>1</sup> / <sub>2</sub> B | G <sup>1</sup> / <sub>4</sub> B | 82 | 22 | 14  |
|                   |      |      |      |    |    |    |     |    |    |      |      |                                 |                                 |    |    |     |
|                   |      |      |      |    |    |    |     |    |    |      |      |                                 |                                 |    |    |     |
|                   |      |      |      |    |    |    |     |    |    |      |      |                                 |                                 |    |    |     |
|                   |      |      |      |    |    |    |     |    |    |      |      |                                 |                                 |    |    |     |

# Rohrfeder-Standardmanometer EN 837-1



## Application

For gaseous and liquid media which are not highly viscous, do not crystallize and do not attack copper alloys.

! When measuring gas or vapour, the instruments must be used in accordance with the safety recommendations of EN 837-2 (see appendix).

## Type

D 2

## Nominal size

160

## Accuracy class (EN 837-1/6)

1.6

## Ranges (EN 837-1/5)

-1/0 to -1/+15 bar

0/0.6 to 0/400 bar

## Application area

Static load:

$\frac{3}{4}$  x full scale value

Dynamic load:

$\frac{2}{3}$  x full scale value

Short term:

full scale value

## Operating temperature range

Medium:  $T_{max} = +60 \text{ }^{\circ}\text{C}$

Ambient:  $T_{min} = -20 \text{ }^{\circ}\text{C}$

$T_{max} = +60 \text{ }^{\circ}\text{C}$

## Temperature performance

Indication error when the temperature of the measuring element deviates from 20 °C:

rising temp. approx.  $\pm 0.4 \text{ } \%/10 \text{ K}$

falling temp. approx.  $\pm 0.4 \text{ } \%/10 \text{ K}$

percentage of full scale value

## Protection

IP 32 (EN 60529)

## Standard version

### Connection

Brass, bottom:

G $\frac{1}{2}$ B – spanner size 22

### Measuring element

Bourdon tube element, copper alloy

$\leq 60 \text{ bar}$  „C“ type bourdon tube

$> 60 \text{ bar}$  helical tube

## Movement

Brass

## Dial

Aluminium, white

Dial marking black

with adjustable red reference pointer

## Pointer

Aluminium, black

## Housing

Sheet steel, black

## Push-on bezel

Sheet steel, black

## Front glass

Instrument glass

## Options

- Damping screw
- Reference pointer

# Standard Bourdon tube pressure gauges

## Type D 2 – NG 160

### Housing types and dimensions









|                          |  |
|--------------------------|--|
| <p>Bottom connection</p> |  |
|                          |  |
|                          |  |

### Dimensions (mm)

| Nominal size (NG) | a    | b  | Øc | c1 | c2 | G     | h   | SW |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|----|----|----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|
| 160               | 15.5 | 50 | 6  | 3  | 20 | G1/2B | 116 | 22 |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |    |    |    |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |    |    |    |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |    |    |    |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |    |    |    |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |    |    |    |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |    |    |    |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |    |    |    |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |    |    |    |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |    |    |    |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |

# Standard Bourdon tube pressure gauges EN 837-1









DG: M

| Type           | RF40,D101                                                                         | RF40,D111                                                                         | RF50,D101                                                                         | RF50,D111                                                                         | RF63,D101                                                                          | RF63,D111                                                                           | RF80,D101                                                                           | RF100,D101                                                                          |
|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Versions       |  |  |  |  |  |  |  |  |
| Housing-Ø      | 40                                                                                | 40                                                                                | 50                                                                                | 50                                                                                | 63                                                                                 | 63                                                                                  | 80                                                                                  | 100                                                                                 |
| Housing        | ABS highly impact resistant, clip-in plastic front glass                          |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| Meas. elem.    | Bourdon tube element, copper alloy                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| Accuracy class | 1.6                                                                               | 1.6                                                                               | 1.6                                                                               | 1.6                                                                               | 1.6                                                                                | 1.6                                                                                 | 1.6                                                                                 | 1.6                                                                                 |
| Connection     | G <sup>1</sup> / <sub>8</sub> B                                                   | G <sup>1</sup> / <sub>8</sub> B                                                   | G <sup>1</sup> / <sub>4</sub> B                                                   | G <sup>1</sup> / <sub>4</sub> B                                                   | G <sup>1</sup> / <sub>4</sub> B                                                    | G <sup>1</sup> / <sub>4</sub> B                                                     | G <sup>1</sup> / <sub>2</sub> B                                                     | G <sup>1</sup> / <sub>2</sub> B                                                     |
| Packing unit*  | 100 pieces                                                                        | 100 pieces                                                                        | 100 pieces                                                                        | 100 pieces                                                                        | 100 pieces                                                                         | 100 pieces                                                                          | 50 pieces                                                                           | 50 pieces                                                                           |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | with adjustable red reference pointer in front glass                                |                                                                                     |
| Range (bar)    | Part no.                                                                          | Part no.                                                                          | Part no.                                                                          | Part no.                                                                          | Part no.                                                                           | Part no.                                                                            | Part no.                                                                            | Part no.                                                                            |
| <b>Price €</b> |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| -1/0           | <b>85001101</b>                                                                   | <b>85001111</b>                                                                   | <b>85051101</b>                                                                   | <b>85051111</b>                                                                   | <b>85101101</b>                                                                    | <b>85101111</b>                                                                     | 85151101                                                                            | 85201101                                                                            |
| -1/+0,6        | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | 85102101                                                                           | 85102111                                                                            | 85152101                                                                            | 85202101                                                                            |
| -1/+1,5        | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | <b>85103101</b>                                                                    | <b>85103111</b>                                                                     | 85153101                                                                            | 85203101                                                                            |
| -1/+3          | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | <b>85104101</b>                                                                    | <b>85104111</b>                                                                     | 85154101                                                                            | 85204101                                                                            |
| -1/+5          | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | <b>85105101</b>                                                                    | <b>85105111</b>                                                                     | 85155101                                                                            | 85205101                                                                            |
| -1/+9          | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | 85106101                                                                           | 85106111                                                                            | 85156101                                                                            | 85206101                                                                            |
| -1/+15         | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | <b>85107101</b>                                                                    | 85107111                                                                            | 85157101                                                                            | 85207101                                                                            |
| <b>Price €</b> |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 0/0,6          | 85009101                                                                          | 85009111                                                                          | 85059101                                                                          | 85059111                                                                          | <b>85109101</b>                                                                    | <b>85109111</b>                                                                     | 85159101                                                                            | 85209101                                                                            |
| 0/1            | <b>85010101</b>                                                                   | <b>85010111</b>                                                                   | <b>85060101</b>                                                                   | <b>85060111</b>                                                                   | <b>85110101</b>                                                                    | <b>85110111</b>                                                                     | 85160101                                                                            | 85210101                                                                            |
| 0/1,6          | <b>85011101</b>                                                                   | <b>85011111</b>                                                                   | <b>85061101</b>                                                                   | <b>85061111</b>                                                                   | <b>85111101</b>                                                                    | <b>85111111</b>                                                                     | 85161101                                                                            | 85211101                                                                            |
| 0/2,5          | <b>85012101</b>                                                                   | <b>85012111</b>                                                                   | <b>85062101</b>                                                                   | <b>85062111</b>                                                                   | <b>85112101</b>                                                                    | <b>85112111</b>                                                                     | 85162101                                                                            | 85212101                                                                            |
| 0/4            | <b>85013101</b>                                                                   | <b>85013111</b>                                                                   | <b>85063101</b>                                                                   | <b>85063111</b>                                                                   | <b>85113101</b>                                                                    | <b>85113111</b>                                                                     | 85163101                                                                            | 85213101                                                                            |
| 0/6            | <b>85014101</b>                                                                   | <b>85014111</b>                                                                   | <b>85064101</b>                                                                   | <b>85064111</b>                                                                   | <b>85114101</b>                                                                    | <b>85114111</b>                                                                     | 85164101                                                                            | 85214101                                                                            |
| 0/10           | <b>85015101</b>                                                                   | <b>85015111</b>                                                                   | <b>85065101</b>                                                                   | <b>85065111</b>                                                                   | <b>85115101</b>                                                                    | <b>85115111</b>                                                                     | 85165101                                                                            | 85215101                                                                            |
| 0/16           | <b>85016101</b>                                                                   | <b>85016111</b>                                                                   | <b>85066101</b>                                                                   | <b>85066111</b>                                                                   | <b>85116101</b>                                                                    | <b>85116111</b>                                                                     | 85166101                                                                            | 85216101                                                                            |
| 0/25           | <b>85017101</b>                                                                   | <b>85017111</b>                                                                   | <b>85067101</b>                                                                   | <b>85067111</b>                                                                   | <b>85117101</b>                                                                    | <b>85117111</b>                                                                     | 85167101                                                                            | 85217101                                                                            |
| 0/40           | <b>85018101</b>                                                                   | <b>85018111</b>                                                                   | <b>85068101</b>                                                                   | <b>85068111</b>                                                                   | <b>85118101</b>                                                                    | <b>85118111</b>                                                                     | 85168101                                                                            | 85218101                                                                            |
| <b>Price €</b> |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 0/60           | 85019101                                                                          | 85019111                                                                          | <b>85069101</b>                                                                   | <b>85069111</b>                                                                   | <b>85119101</b>                                                                    | <b>85119111</b>                                                                     | 85169101                                                                            | 85219101                                                                            |
| 0/100          | 85020101                                                                          | 85020111                                                                          | <b>85070101</b>                                                                   | <b>85070111</b>                                                                   | <b>85120101</b>                                                                    | <b>85120111</b>                                                                     | 85170101                                                                            | 85220101                                                                            |
| 0/160          | 85021101                                                                          | 85021111                                                                          | <b>85071101</b>                                                                   | <b>85071111</b>                                                                   | <b>85121101</b>                                                                    | <b>85121111</b>                                                                     | 85171101                                                                            | 85221101                                                                            |
| 0/250          | 85022101                                                                          | 85022111                                                                          | 85072101                                                                          | 85072111                                                                          | <b>85122101</b>                                                                    | <b>85122111</b>                                                                     | 85172101                                                                            | 85222101                                                                            |
| 0/400          | ---                                                                               | ---                                                                               | 85073101                                                                          | 85073111                                                                          | <b>85123101</b>                                                                    | <b>85123111</b>                                                                     | 85173101                                                                            | 85223101                                                                            |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |

Minimum order quantity for non-stock items = 100 pieces  
Refer to page 284 for additional costs

# Standard Bourdon tube pressure gauges EN 837-1



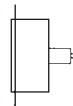





DG: M

| Type           | RF40,D201                                                                         | RF40,D211                                                                         | RF40,D231*                                                                        | RF40,D251*                                                                        | RF50,D201                                                                         | RF50,D211                                                                           | RF50,D231*                                                                          | RF50,D251*                                                                          |
|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Version        |  |  |  |  |  |  |  |  |
| Housing-Ø      | 40                                                                                | 40                                                                                | 40                                                                                | 40                                                                                | 50                                                                                | 50                                                                                  | 50                                                                                  | 50                                                                                  |
| Housing        | Black sheet steel, plastic, clip-in front glass                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Meas. elem.    | Bourdon tube element, copper alloy                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Accuracy class | 1.6                                                                               | 1.6                                                                               | 1.6                                                                               | 1.6                                                                               | 1.6                                                                               | 1.6                                                                                 | 1.6                                                                                 | 1.6                                                                                 |
| Connection     | G <sup>1</sup> / <sub>8</sub> B                                                   | G <sup>1</sup> / <sub>8</sub> B                                                   | G <sup>1</sup> / <sub>8</sub> B                                                   | G <sup>1</sup> / <sub>8</sub> B                                                   | G <sup>1</sup> / <sub>4</sub> B                                                   | G <sup>1</sup> / <sub>4</sub> B                                                     | G <sup>1</sup> / <sub>4</sub> B                                                     | G <sup>1</sup> / <sub>4</sub> B                                                     |
|                |                                                                                   |                                                                                   | 3-hole fixing, panel mounting bezel, chrome plated                                | Panel mounting bezel, chrome plated, clamp fixing                                 |                                                                                   |                                                                                     | 3-hole fixing, panel mounting bezel, chrome plated                                  | Panel mounting bezel, chrome plated, clamp fixing                                   |
| Range (bar)    | Part no.                                                                          | Part no.                                                                          | Part no.                                                                          | Part no.                                                                          | Part no.                                                                          | Part no.                                                                            | Part no.                                                                            | Part no.                                                                            |
| <b>Price €</b> |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| -1/0           | <b>85001201</b>                                                                   | <b>85001211</b>                                                                   | 85001231                                                                          | 85001251                                                                          | 85051201                                                                          | 85051211                                                                            | 85051231                                                                            | <b>85051251</b>                                                                     |
| -1/+0,6        | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                                 | ---                                                                                 | ---                                                                                 |
| -1/+1,5        | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                                 | ---                                                                                 | ---                                                                                 |
| -1/+3          | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                                 | ---                                                                                 | ---                                                                                 |
| -1/+5          | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                                 | ---                                                                                 | ---                                                                                 |
| -1/+9          | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                                 | ---                                                                                 | ---                                                                                 |
| -1/+15         | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                                 | ---                                                                                 | ---                                                                                 |
| <b>Price €</b> |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| 0/1            | 85010201                                                                          | 85010211                                                                          | 85010231                                                                          | 85010251                                                                          | 85060201                                                                          | 85060211                                                                            | 85060231                                                                            | <b>85060251</b>                                                                     |
| 0/1,6          | 85011201                                                                          | 85011211                                                                          | 85011231                                                                          | 85011251                                                                          | 85061201                                                                          | 85061211                                                                            | 85061231                                                                            | <b>85061251</b>                                                                     |
| 0/2,5          | 85012201                                                                          | 85012211                                                                          | 85012231                                                                          | <b>85012251</b>                                                                   | 85062201                                                                          | 85062211                                                                            | <b>85062231</b>                                                                     | <b>85062251</b>                                                                     |
| 0/4            | <b>85013201</b>                                                                   | <b>85013211</b>                                                                   | <b>85013231</b>                                                                   | <b>85013251</b>                                                                   | <b>85063201</b>                                                                   | <b>85063211</b>                                                                     | <b>85063231</b>                                                                     | <b>85063251</b>                                                                     |
| 0/6            | <b>85014201</b>                                                                   | <b>85014211</b>                                                                   | <b>85014231</b>                                                                   | <b>85014251</b>                                                                   | <b>85064201</b>                                                                   | <b>85064211</b>                                                                     | <b>85064231</b>                                                                     | <b>85064251</b>                                                                     |
| 0/10           | <b>85015201</b>                                                                   | <b>85015211</b>                                                                   | <b>85015231</b>                                                                   | <b>85015251</b>                                                                   | <b>85065201</b>                                                                   | <b>85065211</b>                                                                     | <b>85065231</b>                                                                     | <b>85065251</b>                                                                     |
| 0/16           | <b>85016201</b>                                                                   | <b>85016211</b>                                                                   | <b>85016231</b>                                                                   | <b>85016251</b>                                                                   | <b>85066201</b>                                                                   | <b>85066211</b>                                                                     | <b>85066231</b>                                                                     | <b>85066251</b>                                                                     |
| 0/25           | <b>85017201</b>                                                                   | <b>85017211</b>                                                                   | <b>85017231</b>                                                                   | <b>85017251</b>                                                                   | <b>85067201</b>                                                                   | <b>85067211</b>                                                                     | <b>85067231</b>                                                                     | <b>85067251</b>                                                                     |
| 0/40           | 85018201                                                                          | 85018211                                                                          | 85018231                                                                          | 85018251                                                                          | 85068201                                                                          | 85068211                                                                            | 85068231                                                                            | 85068251                                                                            |
| <b>Price €</b> |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| 0/60           | 85019201                                                                          | 85019211                                                                          | 85019231                                                                          | 85019251                                                                          | 85069201                                                                          | 85069211                                                                            | 85069231                                                                            | 85069251                                                                            |
| 0/100          | 85020201                                                                          | 85020211                                                                          | 85020231                                                                          | 85020251                                                                          | 85070201                                                                          | 85070211                                                                            | 85070231                                                                            | 85070251                                                                            |
| 0/160          | 85021201                                                                          | 85021211                                                                          | 85021231                                                                          | 85021251                                                                          | 85071201                                                                          | 85071211                                                                            | 85071231                                                                            | 85071251                                                                            |
| 0/250          | 85022201                                                                          | 85022211                                                                          | 85022231                                                                          | 85022251                                                                          | 85072201                                                                          | 85072211                                                                            | 85072231                                                                            | 85072251                                                                            |
| 0/400          | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                               | 85073201                                                                          | 85073211                                                                            | 85073231                                                                            | 85073251                                                                            |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

\* Dual scale, bar outer, black, psi inner, red  
 Minimum order quantity for non-stock items = 100 pieces

# Standard Bourdon tube pressure gauges EN 837-1

DG: M

| Type           | RF63,D201                                                                         | RF63,D211                                                                         | RF63,D231*                                                                        | RF63,D251*                                                                        | RF80,D201                                                                          | RF100,D201                                                                          | RF100,D211                                                                          | RF160,D201                                                                          |  |
|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| Version        |  |  |  |  |  |  |  |  |  |
| Housing-Ø      | 63                                                                                | 63                                                                                | 63                                                                                | 63                                                                                | 80                                                                                 | 100                                                                                 | 100                                                                                 | 160                                                                                 |  |
| Housing        | Black sheet steel, plastic, clip-in front glass                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | Push on bezel                                                                       |  |
| Meas. elem.    | Bourdon tube element, copper alloy                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |
| Accuracy class | 1.6                                                                               | 1.6                                                                               | 1.6                                                                               | 1.6                                                                               | 1.6                                                                                | 1.6                                                                                 | 1.6                                                                                 | 1.6                                                                                 |  |
| Connection     | G <sup>1</sup> / <sub>4</sub> B                                                   | G <sup>1</sup> / <sub>4</sub> B                                                   | G <sup>1</sup> / <sub>4</sub> B                                                   | G <sup>1</sup> / <sub>4</sub> B                                                   | G <sup>1</sup> / <sub>2</sub> B                                                    | G <sup>1</sup> / <sub>2</sub> B                                                     | G <sup>1</sup> / <sub>4</sub> B                                                     | G <sup>1</sup> / <sub>2</sub> B                                                     |  |
|                |                                                                                   |                                                                                   | 3-hole fixing, panel mounting bezel, chrome plated                                | Panel mounting bezel, chrome plated, clamp fixing                                 | with adjustable red reference pointer                                              |                                                                                     |                                                                                     |                                                                                     |  |
| Range (bar)    | Part no.                                                                          | Part no.                                                                          | Part no.                                                                          | Part no.                                                                          | Part no.                                                                           | Part no.                                                                            | Part no.                                                                            | Part no.                                                                            |  |
| <b>Price €</b> |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |
| -1/0           | <b>85101201</b>                                                                   | <b>85101211</b>                                                                   | 85101231                                                                          | <b>85101251</b>                                                                   | <b>85151201</b>                                                                    | <b>85201201</b>                                                                     | 85201211                                                                            | <b>85251201</b>                                                                     |  |
| -1/+0,6        | 85102201                                                                          | 85102211                                                                          | 85102231                                                                          | 85102251                                                                          | 85152201                                                                           | <b>85202201</b>                                                                     | 85202211                                                                            | 85252201                                                                            |  |
| -1/+1,5        | 85103201                                                                          | 85103211                                                                          | 85103231                                                                          | 85103251                                                                          | 85153201                                                                           | <b>85203201</b>                                                                     | 85203211                                                                            | 85253201                                                                            |  |
| -1/+3          | 85104201                                                                          | 85104211                                                                          | 85104231                                                                          | 85104251                                                                          | 85154201                                                                           | <b>85204201</b>                                                                     | 85204211                                                                            | 85254201                                                                            |  |
| -1/+5          | 85105201                                                                          | 85105211                                                                          | 85105231                                                                          | 85105251                                                                          | 85155201                                                                           | <b>85205201</b>                                                                     | 85205211                                                                            | 85255201                                                                            |  |
| -1/+9          | 85106201                                                                          | 85106211                                                                          | 85106231                                                                          | 85106251                                                                          | 85156201                                                                           | <b>85206201</b>                                                                     | 85206211                                                                            | 85256201                                                                            |  |
| -1/+15         | 85107201                                                                          | 85107211                                                                          | 85107231                                                                          | 85107251                                                                          | 85157201                                                                           | <b>85207201</b>                                                                     | 85207211                                                                            | 85257201                                                                            |  |
| <b>Price €</b> |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |
| 0/0,6          | 85109201                                                                          | 85109211                                                                          | 85109231                                                                          | 85109251                                                                          | 85159201                                                                           | <b>85209201</b>                                                                     | 85209211                                                                            | <b>85259201</b>                                                                     |  |
| 0/1            | <b>85110201</b>                                                                   | 85110211                                                                          | 85110231                                                                          | <b>85110251</b>                                                                   | <b>85160201</b>                                                                    | <b>85210201</b>                                                                     | 85210211                                                                            | <b>85260201</b>                                                                     |  |
| 0/1,6          | <b>85111201</b>                                                                   | 85111211                                                                          | 85111231                                                                          | <b>85111251</b>                                                                   | <b>85161201</b>                                                                    | <b>85211201</b>                                                                     | 85211211                                                                            | <b>85261201</b>                                                                     |  |
| 0/2,5          | <b>85112201</b>                                                                   | <b>85112211</b>                                                                   | <b>85112231</b>                                                                   | <b>85112251</b>                                                                   | <b>85162201</b>                                                                    | <b>85212201</b>                                                                     | 85212211                                                                            | <b>85262201</b>                                                                     |  |
| 0/4            | <b>85113201</b>                                                                   | <b>85113211</b>                                                                   | <b>85113231</b>                                                                   | <b>85113251</b>                                                                   | <b>85163201</b>                                                                    | <b>85213201</b>                                                                     | <b>85213211</b>                                                                     | <b>85263201</b>                                                                     |  |
| 0/6            | <b>85114201</b>                                                                   | <b>85114211</b>                                                                   | <b>85114231</b>                                                                   | <b>85114251</b>                                                                   | <b>85164201</b>                                                                    | <b>85214201</b>                                                                     | <b>85214211</b>                                                                     | <b>85264201</b>                                                                     |  |
| 0/10           | <b>85115201</b>                                                                   | <b>85115211</b>                                                                   | <b>85115231</b>                                                                   | <b>85115251</b>                                                                   | <b>85165201</b>                                                                    | <b>85215201</b>                                                                     | <b>85215211</b>                                                                     | <b>85265201</b>                                                                     |  |
| 0/16           | <b>85116201</b>                                                                   | <b>85116211</b>                                                                   | <b>85116231</b>                                                                   | <b>85116251</b>                                                                   | <b>85166201</b>                                                                    | <b>85216201</b>                                                                     | <b>85216211</b>                                                                     | <b>85266201</b>                                                                     |  |
| 0/25           | <b>85117201</b>                                                                   | <b>85117211</b>                                                                   | 85117231                                                                          | <b>85117251</b>                                                                   | <b>85167201</b>                                                                    | <b>85217201</b>                                                                     | 85217211                                                                            | <b>85267201</b>                                                                     |  |
| 0/40           | 85118201                                                                          | 85118211                                                                          | 85118231                                                                          | 85118251                                                                          | <b>85168201</b>                                                                    | <b>85218201</b>                                                                     | 85218211                                                                            | <b>85268201</b>                                                                     |  |
| <b>Price €</b> |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |
| 0/60           | 85119201                                                                          | 85119211                                                                          | 85119231                                                                          | 85119251                                                                          | <b>85169201</b>                                                                    | <b>85219201</b>                                                                     | 85219211                                                                            | 85269201                                                                            |  |
| 0/100          | 85120201                                                                          | 85120211                                                                          | 85120231                                                                          | 85120251                                                                          | 85170201                                                                           | 85220201                                                                            | 85220211                                                                            | 85270201                                                                            |  |
| 0/160          | 85121201                                                                          | 85121211                                                                          | 85121231                                                                          | 85121251                                                                          | 85171201                                                                           | 85221201                                                                            | 85221211                                                                            | 85271201                                                                            |  |
| 0/250          | 85122201                                                                          | 85122211                                                                          | 85122231                                                                          | 85122251                                                                          | 85172201                                                                           | 85222201                                                                            | 85222211                                                                            | 85272201                                                                            |  |
| 0/400          | 85123201                                                                          | 85123211                                                                          | 85123231                                                                          | 85123251                                                                          | 85173201                                                                           | 85223201                                                                            | 85223211                                                                            | 85273201                                                                            |  |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |
|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |

\* Dual scale, bar outer, black, psi inner, red  
 Minimum order quantity for non-stock items = 100 pieces

Refer to page 284 for additional costs