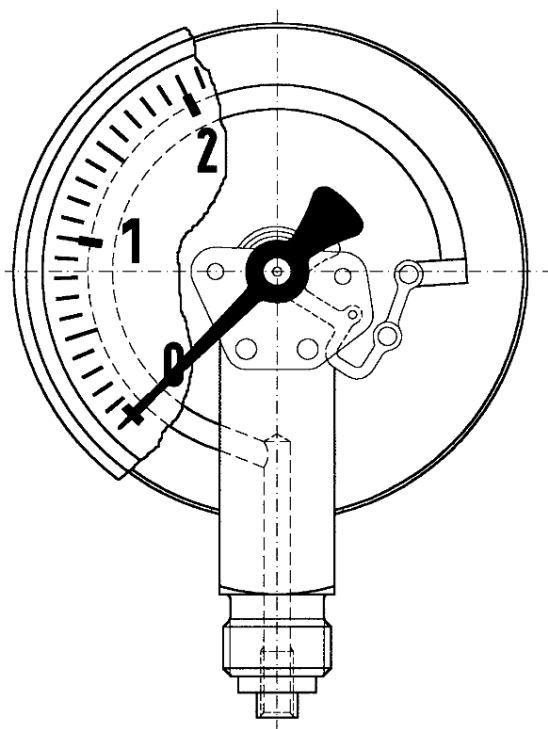




## Standard Bourdon tube pressure gauge type D1

### benefits

- for pneumatic and heating system applications
- Design as per EN 837-1
- Accuracy class 1.6
- corrosion-resistant, highly impact-resistant plastic housing
- many customised versions available

## Application

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

! For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2"!

## Technical Specifications

### Type

D1

### Nominal size

80

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

1.6

### ranges (EN 837-1/5)

see ordering table

### 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: max. 60 °C

Ambient: -20/+60 °C

### Temperature performance

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

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

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

of full scale value

### Degree of protection

IP 32 (EN 60529)

### Connection

Brass, bottom

### Measuring element

Bourdon tube, Copper alloy

$\leq 60 \text{ bar}$ : "C" type tube

$> 60 \text{ bar}$ : helical tube

### movement

Brass

#### Dial

Plastic, white  
Scaling: black

#### Pointer

Plastic, black

#### Housing

ABS, black, highly impact-resistant and corrosion-resistant

#### window

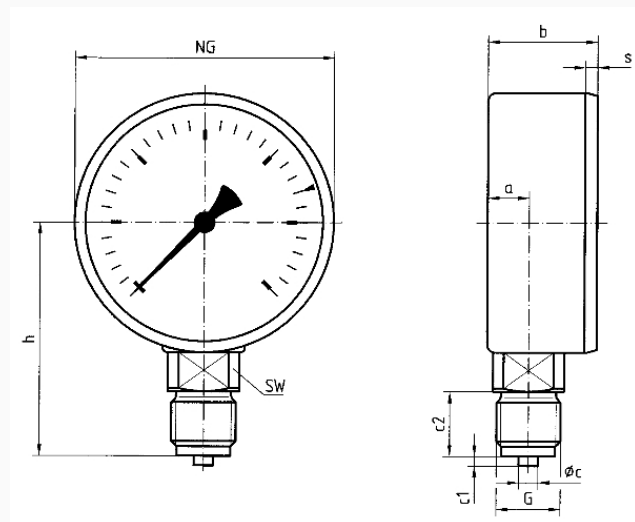
Plastic, clipped in  
NG 80  
with adjustable red reference pointer

### Options

- throttle screw
- Reference pointer
- special scales
- other process connections

### Technical Drawings

NG 80 – bottom connection



Dimensions (mm)

| NG | a    | b    | Øc | c1 | c2 | G   | h  | s   | SW |
|----|------|------|----|----|----|-----|----|-----|----|
| 80 | 12,8 | 32,8 | 6  | 3  | 20 | G¼B | 72 | 2,8 | 22 |

## Versions

| Range       | Mounting type | Type         |   | Part number |
|-------------|---------------|--------------|---|-------------|
| -1/+0 bar   | direct        | RF80<br>D101 | ● | 85151101    |
| -1/+0.6 bar | direct        | RF80<br>D101 | ● | 85152101    |
| -1/+1.5 bar | direct        | RF80<br>D101 | ● | 85153101    |
| -1/+3 bar   | direct        | RF80<br>D101 | ● | 85154101    |
| -1/+5 bar   | direct        | RF80<br>D101 | ● | 85155101    |
| -1/+9 bar   | direct        | RF80<br>D101 | ● | 85156101    |
| -1/+15 bar  | direct        | RF80<br>D101 | ● | 85157101    |
| 0/0.6 bar   | direct        | RF80<br>D101 | ● | 85159101    |
| 0/1 bar     | direct        | RF80<br>D101 | ● | 85160101    |
| 0/1.6 bar   | direct        | RF80<br>D101 | ● | 85161101    |
| 0/2.5 bar   | direct        | RF80<br>D101 | ● | 85162101    |
| 0/4 bar     | direct        | RF80<br>D101 | ● | 85163101    |
| 0/6 bar     | direct        | RF80<br>D101 | ● | 85164101    |
| 0/10 bar    | direct        | RF80<br>D101 | ● | 85165101    |
| 0/16 bar    | direct        | RF80<br>D101 | ● | 85166101    |
| 0/25 bar    | direct        | RF80<br>D101 | ● | 85167101    |
| 0/40 bar    | direct        | RF80<br>D101 | ● | 85168101    |
| 0/60 bar    | direct        | RF80<br>D101 | ● | 85169101    |

|           |        |              |   |          |
|-----------|--------|--------------|---|----------|
| 0/100 bar | direct | RF80<br>D101 | ● | 85170101 |
| 0/160 bar | direct | RF80<br>D101 | ● | 85171101 |
| 0/250 bar | direct | RF80<br>D101 | ● | 85172101 |
| 0/400 bar | direct | RF80<br>D101 | ● | 85173101 |

● in-stock items

● Non-stock items