## Application

For fluid and gaseous media which are not highly viscous and do not tend to crystallize. The medium must be compatible with the wetted parts; for various applications where a built-in square case is required, e.g. switchboards, electrical control panels, or control boxes

## Nominal Case Sizes

96 (3.78 x 3.78 "), 144 ( $5.67 \times 5.67$ ")

## Accuracy Class

1.0 according to EN $837-1$ (i.e. max. $\pm 1.0 \%$ of full scale value)

## Pressure Ranges (EN 837-1)

0-0.6 up to 0-1000 bar (0-10 up to $0-15,000$ psi)
also all standard vacuum and compound ranges

## Pressure Limitations (EN 837-1)

| Steady pressure: | full scale value |
| :--- | :--- |
| Cyclic pressure: | $90 \%$ of full scale value |
| Temporary: | $130 \%$ of full scale value |

## Temperature Limitations

Ambient temperature: -40 to $+60^{\circ} \mathrm{C}\left(-4 \ldots+140{ }^{\circ} \mathrm{F}\right)$
Medium temperature: max. $+60^{\circ} \mathrm{C}\left(+140^{\circ} \mathrm{F}\right)$ soft soldered
max. $+100^{\circ} \mathrm{C}\left(212^{\circ} \mathrm{F}\right)$ silver brazed / argon arc welded

## Temperature Caused Error

The error caused by temperatures differing from the reference temperature of $+20^{\circ} \mathrm{C}\left(+68^{\circ} \mathrm{F}\right)$ is significant. In correspondence with EN $837-1$ it may be up to $0.4 \%$ per each $+10^{\circ} \mathrm{C}\left(+18^{\circ} \mathrm{F}\right)$.
Protection Type (EN 60529 / IEC 529)
IP 43
Further information about advantages, applications, specifications and pressure ranges of Bourdon tube pressure gauges of accuracy class 1.0 to 2.5 can be found on general information leaflet 1000.

## Standard Configuration

## Connection

G1⁄2 B (1⁄2" BSP) lower back connection (standard)

## Wetted Parts

Version-1: Socket = brass
Bourdon tube:
$\leq 40$ bar = bronze, C-form, soft-soldered
$\geq 60$ bar = bronze, helical, silver brazed
1000 bar $=316$ stainl. steel (1.4571), helical, silver brazed
Version -3: Socket: $=316$ stainless steel (1.4571)
Bourdon tube:
$\leq 40$ bar $=316$ stainl. steel (1.4571), C-Form, argon arc welded
$\geq 60$ bar $=316$ stainl. steel (1.4571), helical, argon arc welded

## Movement

Brass / German silver
Dial
Aluminum alloy, black figures, white background

## Pointer

Aluminum alloy black

## Case

Square case with black front frame (carbon steel), model RQS with narrow rim, model RQB with wide rim, clamp clip for panel mounting

## Lens

Single strength glass


## Optional Special Configurations

- Process connection $1 / 2{ }^{2}$ NPT, others upon request
- Wetted parts Monel upon request
- Inlet port restrictor screw brass or stainless steel
- Special scales e.g. dual ranges, combination pressure and temperature ranges, fine division (with test gauge pointer)
- Receiver gauge 0.2-1 bar or 3-15 psi
- Movement stainless steel (wear and corrosion resistant)
- Higher pressure ranges upon request
- Nom. size 192 (7.56x7.56") upon request
- Other than vertical installation, e.g. inclined $45^{\circ}$ backwards
- Electrical accessories, see data sheets 1590 and 9000 ff.


## How to Order:

Please specify:
Model code:
RQB = Front frame with wide rim RQS = Front frame with narrow rim

Wetted parts: $\quad \mathbf{- 1}$ or $\mathbf{- 3}$, compare left
Pressure range: according EN 837-1
e.g. 0-4 bar or-1/+9 bar

Process connection: $\quad$ G $1 / 2$ B ( $1 / 2$ " BSP) (= standard) or $1 / 2^{\prime \prime}$ NPT, others upon request

Special configurations: (see above)
Examples for Ordering Information:

- RQS 96-3, 0-6 bar, G ½ B
- RQB 144-1, -1/+9 bar, ½" NPT


## Dimensions and Weight



Dimensions (mm / inches) and Weight (kg / lb)

| Nom. Size A | $\mathrm{a}^{1)}$ | a1 ${ }^{2)}$ | b | C | c1 | c2 | c3 | d | e | G | G1 | g | g1 | s2 | SW | T | Weight (approx.) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} 96 \\ 3.78 \end{gathered}$ | $\begin{gathered} 75 \\ 2.95 \end{gathered}$ | $\begin{gathered} 88 \\ 3.46 \end{gathered}$ | $\begin{gathered} 48 \\ 1.89 \end{gathered}$ | $\begin{gathered} 6 \\ .24 \end{gathered}$ | $\begin{gathered} 3 \\ .12 \end{gathered}$ | $\begin{aligned} & 20 \\ & .08 \end{aligned}$ | $\begin{aligned} & 19 \\ & .75 \end{aligned}$ | $\begin{gathered} 90 \\ 3.54 \end{gathered}$ | $\begin{gathered} 30 \\ 1.18 \end{gathered}$ | $\begin{gathered} \text { G } 1 / 2 \text { B } \\ 1 / 2^{\prime \prime} \text { BSP } \end{gathered}$ | ½" NPT | $\begin{gathered} 88 \\ 3.46 \end{gathered}$ | $\begin{gathered} 87 \\ 3.43 \end{gathered}$ | $\begin{aligned} & 8 \\ & .31 \end{aligned}$ | $\begin{gathered} 17 \\ .67 \end{gathered}$ | $\begin{gathered} 92 \\ 3.62 \end{gathered}$ | $\begin{aligned} & 0.75 \\ & 1.65 \end{aligned}$ |
| 144 | 116 | 134 |  |  |  |  |  | 136 | $\begin{gathered} 52 \\ 2.05 \end{gathered}$ |  |  |  |  |  |  | 138 | 1.30 |
| 5.67 | 4.57 | 5.28 |  |  |  |  |  | 5.35 |  |  |  |  |  |  |  | 5.43 | 2.87 |
| 192 | 164 |  |  |  |  |  |  | 184 |  |  |  |  |  |  |  | 186 | 2.00 |
| 7.56 | 6.46 | - |  |  |  |  |  | 7.24 |  |  |  |  |  |  |  | 7.32 | 4.41 |

${ }^{1)}$ model RQB
${ }^{2}$ ) model RQS

