Bourdon Tube Pressure Gauges

Square Case with Front Frame, Wide Rim (RQB) or Narrow Rim (RQS)

Accuracy class 1
Nom. Sizes 96 (3.78") 144 (5.67")
Models **RQB** **RQS**

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 x 5.67")

Accuracy Class
1.0 according to EN 837-1 (i.e. max. ± 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 °C (-4...+140 °F)
Medium temperature: max. +60 °C (+140 °F) soft soldered
max. +100 °C (212 °F) silver brazed / argon arc welded

Temperature Caused Error
The error caused by temperatures differing from the reference temperature of +20 °C (+68 °F) is significant. In correspondence with EN 837-1 it may be up to 0.4% per each +10 °C (+18 °F).

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
G ½ B (½" BSP) lower back connection (standard)

Wetted Parts
Version **–1**: Socket = brass
Bourdon tube:
≤ 40 bar = bronze, C-form, soft-soldered
≥ 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:
≤ 40 bar = 316 stainl. steel (1.4571), C-Form, argon arc welded
≥ 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 ½" 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° backwards
- Electrical accessories, see data sheets 1590 and 9000 ff.

How to Order:

Please specify:

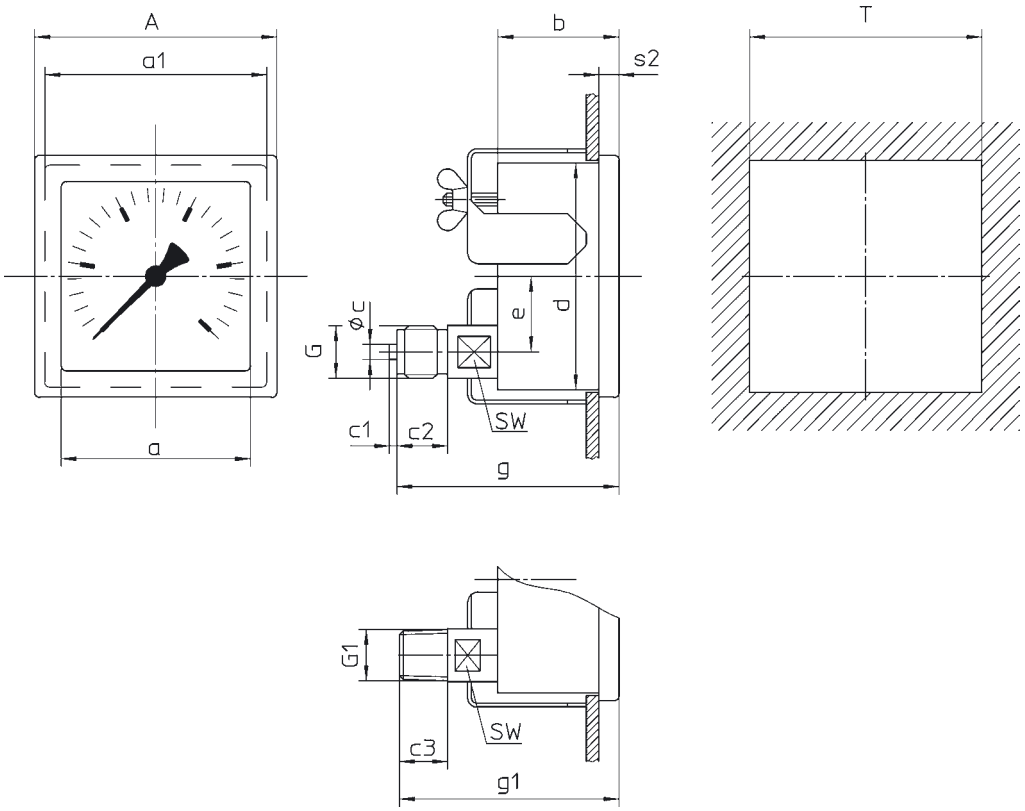
Model code:	**RQB** = Front frame with wide rim **RQS** = Front frame with narrow rim
Wetted parts:	**– 1** or **– 3**, compare left
Pressure range:	according EN 837-1 e.g. **0-4 bar** or-1/+9 bar
Process connection:	**G ½ B** (½" BSP) (= standard) or **½" NPT,** others upon request
Special configurations:	(see above)

Examples for Ordering Information:
- RQS 96–3, 0-6 bar, G ½ B
- RQB 144–1, -1/+9 bar, ½" NPT

ARMATURENBAU GmbH
Manometerstraße 5 • D-46487 Wesel - Ginderich
Phone: (0 28 03) 91 30 - 0 • Fax: (0 28 03) 10 35
armaturenbau.com • mail@armaturenbau.com

Subsidiary Company and Sales East Germany and Eastern Europe
MANOTHERM Beierfeld GmbH
Am Gewerbepark 9 • D-08340 Beierfeld
Phone: (0 37 74) 58 - 0 • Fax: (0 37 74) 58 - 545
manotherm.com • mail@manotherm.com

Dimensions and Weight



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

Nom. Size A	a [1]	a1 [2]	b	c	c1	c2	c3	d	e	G	G1	g	g1	s2	SW	T	Weight (approx.)
96 **3.78**	75 **2.95**	88 **3.46**						90 **3.54**	30 **1.18**							92 **3.62**	0.75 **1.65**
144 **5.67**	116 **4.57**	134 **5.28**	48 **1.89**	6 **.24**	3 **.12**	20 **.08**	19 **.75**	136 **5.35**	52 **2.05**	G ½ B **½" BSP**	½" NPT	88 **3.46**	87 **3.43**	8 **.31**	17 **.67**	138 **5.43**	1.30 **2.87**
192 **7.56**	164 **6.46**	—						184 **7.24**								186 **7.32**	2.00 **4.41**

[1] model RQB
[2] model RQS

The information in this leaflet is given in good faith, but we reserve the right to make changes without notice.