Bell's Economical Bourdon tube pressure gauge Model BEM22EPG, liquid filling, stainless steel case

Applications

- Designed for measuring points subject to high dynamic pressure loads or intense vibrations
- Suitable for gaseous and liquid media that are non-viscous, non-crystallising, and non-aggressive to copper alloy parts
- Typical areas of use:
  - Hydraulic systems
  - Compressors
  - Shipbuilding

Product Overview

- Vibration and shock resistant design
- Extra robust construction
- Available in 50, 63, and 100 mm models
- Available with scale ranges up to (-1 to 1000) bar

Bell's Economical Bourdon tube pressure gauge Model BEM22EPG, liquid filling, stainless steel case, bottom mounting

Description

Design
EN 837-1

Nominal size in mm
50, 63, 100

Accuracy class
50,63: class 1.6
100: class 1.0

Scale ranges
50,63: 0 ... 1 to 0 ... 400 bar
100: 0 ... 0.6 to 0 ... 1,000 bar
or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitation
50, 63: Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: Full scale value

100: Steady: Full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.3 x full scale value

Permissible temperature
Ambient: -20 ... +60 °C
Medium: +60 °C maximum

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+20 °C): Max. ±0.4 %/10 K of the span

Ingress protection
IP 68 per EN 60529 / IEC 60529

Data sheets showing similar products: Standard version with liquid filling; model BEM22EPG see data sheet BEM22EPG

Standard version

Process connection
Copper alloy,Stainless Steel lower mount (LM) or back mount (BM),
50, 63: G ¼ B (male), 14 mm flats
100: G ½ B (male), 22 mm flats

Pressure element
50: Copper alloy / Stainless steel 316L, C-type or helical type

63:
≤ 400 bar: Copper alloy / Stainless steel 316L, C-type or helical type
> 400 bar: Stainless steel 316L, helical type

100:
< 100 bar: Copper alloy / Stainless steel 316L, C-type
≥ 100 bar: Stainless steel 316L, helical type

Movement
Copper alloy / Stainless steel

Dial
50, 63: Aluminum, white, Red and black lettering
100: Aluminum, white, Red and black lettering

Pointer
50, 63: Aluminium, black
100:Aluminium, black

Window
Plastic, crystal-clear

Case
Natural finish / Glossy stainless steel, with blow-out device with
50: in case back, 12 o'clock
63,100: at case circumference, 12 o'clock
O-ring seal between case and connection.

Bezel ring
Crimp ring, glossy finish stainless steel, triangular bezel

Filling liquid
Glycerine

Options

- Other process connection
- Measuring system and movement from stainless steel
- 100: Zero adjustment (in front)
- Increased medium temperature with special soft solder
  - 50, 63: 100 °C
  - 100: 150 °C
- Ambient temperature resistant -40 ... +60 °C with silicone oil filling
- 50: Higher scale ranges up to 0 ... 1,000 bar
- Panel mounting flange, stainless steel, for back connection
- Surface mounting flange, stainless steel (not NS 50)
- Mounting clamp (for back connection)

CE conformity

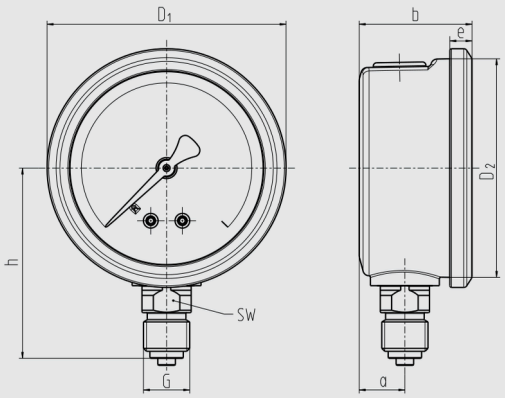
Pressure equipment directive
QVA-MLHV-23-1019876

Data sheets showing similar products: Standard version with liquid filling; model BEM22EPG see data sheet BEM22EPG

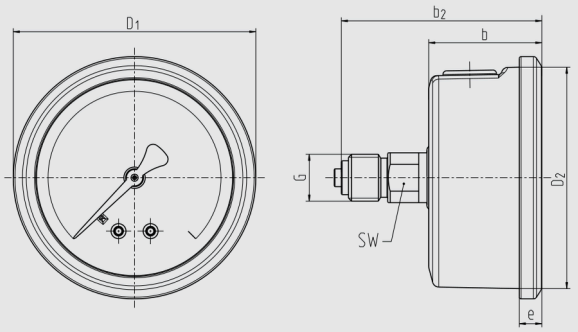
Dimensions in mm

Standard version

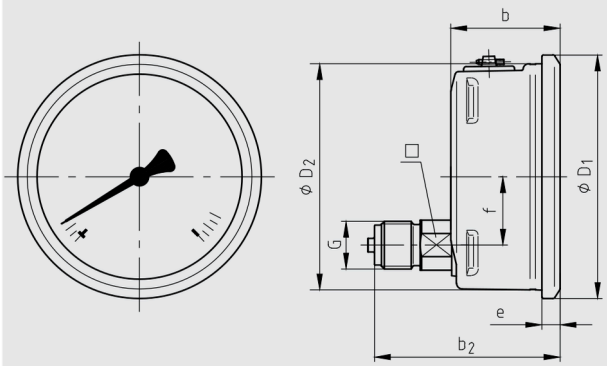
Lower mount (LM)



50, 63, centre back mount (CBM)



100, lower back mount (LBM)



NS	Dimensions in mm										Weight in kg
	a	b ±0.5	b2±0.5	D1	D2	e	f	G	h ±1	SW	
50	12	30	55	55	50	5.5	-	G ¼ B	48	14	0.15
63	13	32	56	68	62	6.5	-	G ¼ B	54	14	0.21
100	15.5	48	81.5	107	100	8	30	G ½ B	87	22	0.80

Process connection per EN 837-1 / 7.3

Ordering information

Model / Nominal size / Scale range / Connection size / Connection location / Options

Data sheets showing similar products: Standard version with liquid filling; model BEM22EPG see data sheet BEM22EPG

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