

Service intended

Robust pressure gauge with stainless steel case and liquid filling. Intended for adverse service conditions where pulsation or vibration exists. Suitable for gaseous or liquid media that will not obstruct the pressure system or attack copper alloy parts.

Design

EN 837-1

Nominal size

40, 50, 63, 80 and 100 mm

Accuracy class per EN 837-1 /6)

40, 50 and 63 mm: 1.6
80 and 100 mm: 1.0

Scale ranges per EN 837-1/5

40, 50mm: 0/1 to 0/400
63 and 80 mm: 0/0.6 to 0/1000
100 mm: 0/0.6 to 0/1600
or other equivalent units of pressure or vacuum

Working pressure

40, 50 and 63 mm:	Steady:	$\frac{3}{4}$ of full scale value
	Fluctuating:	$\frac{2}{3}$ of full scale value
	Short time:	full scale value
80 and 100 mm:	Steady:	full scale value
	Fluctuating:	0.9 x full scale value
	Short time:	1.3 x full scale value

Operating Temperature

Ambient: -40... +80 °C
Medium: +60 °C maximum

Temperature error

Additional error when temperature of the pressure element deviates from +20 °C
Rising temperature: +0.3%/10K of true scale value
Falling temperature: -0.3%/10K of true scale value

Standard features

Pressure connection

Material: Copper alloy
Threaded entry (radial or back) per EN 837-1 /7.3
40, 50 and 63 mm: G $\frac{1}{4}$ B 14 mm flats
80 and 100 mm: G $\frac{1}{2}$ B 22 mm flats

Pressure element

40, 50, 63 and 80 mm:
< 60 bar: Cu-alloy, C-type, soft soldered
≥ 60 bar: Cu-alloy, helical type, soft soldered
100 mm:
< 600 bar: Cu-alloy, C-type, soft soldered
≥ 600 bar: Stainless steel, helical type, brazed

Movement

Cu-alloy
up 80 mm: Cu-alloy, wear parts argentan



Dial

40, 50 and 63 mm: white plastic, with pointer stop pin
80 and 100 mm: white aluminium
With black lettering

Protections: IP65

Pointer

40, 50 and 63 mm: black plastic
80 and 100 mm: black aluminium

Case

Natural finish stainless steel
O-ring seal between case and entry stem
Pressure relief in case top
Ranges ≤ 6 bar with case venting provision

Window

Non-splintering clear acrylic glass

Bezel ring

Triangular bezel, roll formed, glossy finish stainless steel

Liquid filling

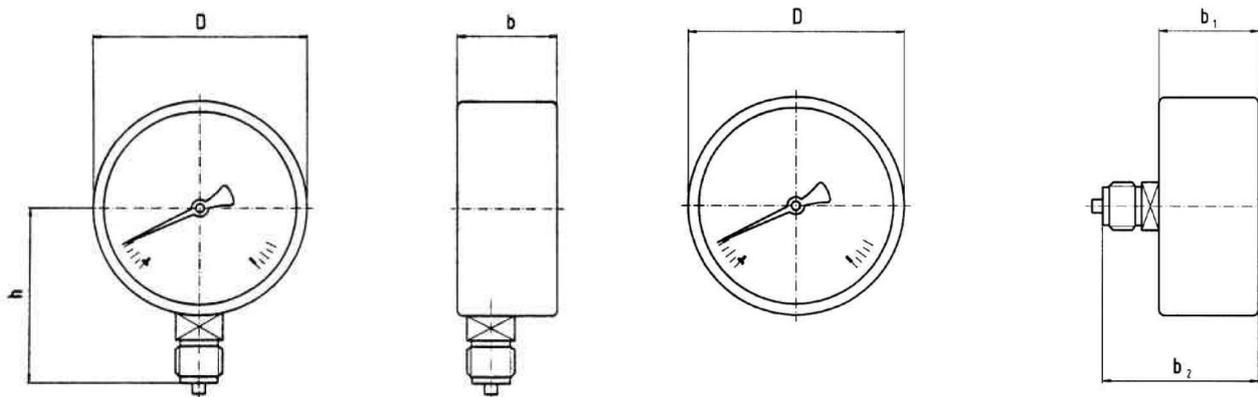
Glycerine 90% - 99%

Optional extras

- Other pressure connection
- Black finish steel case / Bezel chromed ring
- Slip-on bezel
- 3-hole surface mounting flange
- U bracket for clamp fixing
- Red pointer fixed on transparent or on dial
- Dragged pointer of MIN / MAX
- Throat element
- Cut glass
- Red mark
- Thread $\frac{1}{8}$ - $\frac{1}{4}$ - 9x1 -10x1 : BSP - BSPT - NPT

Dimensions

Standard version



Nominal Size	Dimensions [mm]					Weight [g]
	h	b	b1	b2	D	
40	40	24	24	42	42	140
50	45	26	26	46	51	160
63	50	26	26	45	63	190
80	65	34	34	68	84	400
100	88	48	48	86	114	650

Ordering information

State:

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required

Specification and dimension given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice

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