

Bourdon pressure gauge, stainless steel / EN 837-1 P103



- Mechanical system in stainless steel
- Case Ø 63 mm
- Ranges from -1 ... up to 1000 bar

APPLICATIONS

For neutral liquids or gases, in food, pharmaceutical, chemical, petrochemical industries.

DESCRIPTION

Pressure gauges P103 are in conformity with standard EN 837-1. With stainless steel parts, this model is suitable for a large number of industrial applications.

To suit applications with vibrating support, the case may be filled up with glycerin or silicone oil. These fluids diminish the unstability of the pointer to facilitate the reading. As well, they increase the lifetime of the instrument.

Note: In the case of sudden changes in pressure such as water hammers or pulsating flow, it is recommended to use a pressure damper (see data-sheet 816-02).

TECHNICAL FEATURES

Accuracy	Class 1.6
Type	Dry case, (Option: filling)
Ambient temperature	-40 to +65 °C (dry case) -20 to +65 °C (filled case)
Operating temperature	Fluid: Max. 300 °C
Temperature drift	For temperatures from 20 °C over the reference temperature, error on reading is max. $\pm 0.4 \% / 10 \text{ }^\circ\text{C}$.
Measuring ranges	From -1 ... 0 bar up to 0 ... 1600 bar
Mechanical system	Bourdon tube Type C (≤ 100 bar) Helicoidal (> 100 bar)
Protection	IP 54 / IP 65
Fitting	BSP 1/4"
Mounting	Fitting: Vertical; Direct mounting Fitting: Horizontal; Direct mounting Fitting: Vertical; Rear-back flange; Panel mounting Fitting: Vertical; Front flange; Panel mounting

Pressure limits:

Static pressure	Full scale (F.S.)
Dynamic pressure	0.9 x F.S.
Instantly	1.3 x F.S. if ≤ 100 bar 1.15 x F.S. if > 100 bar

Materials:

Weld sealing	Argon TIG welding
Bourdon tube	AISI 316 L
Mechanical system	AISI 304
Case and ring	AISI 304
Gasket	Neoprene
Dial	Aluminum, black marks on white background
Pointer	Aluminum, black color; Adjustable zero
Window	PMMA

EC Conformité: The instrument meets the legal requirements of the current European Directives

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**Bourdon pressure gauge,
stainless steel / EN 837-1
P103**

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PR

812-54/1

CODE NUMBERS AND REFERENCES

Standard model:

- Case diam 63 mm
- Fitting: AISI 316 L; BSP 1/4"
- Vertical; Direct mounting
- Class 1.6
- Case and ring AISI 304
- Dry case
- Window: SEKURIT glass

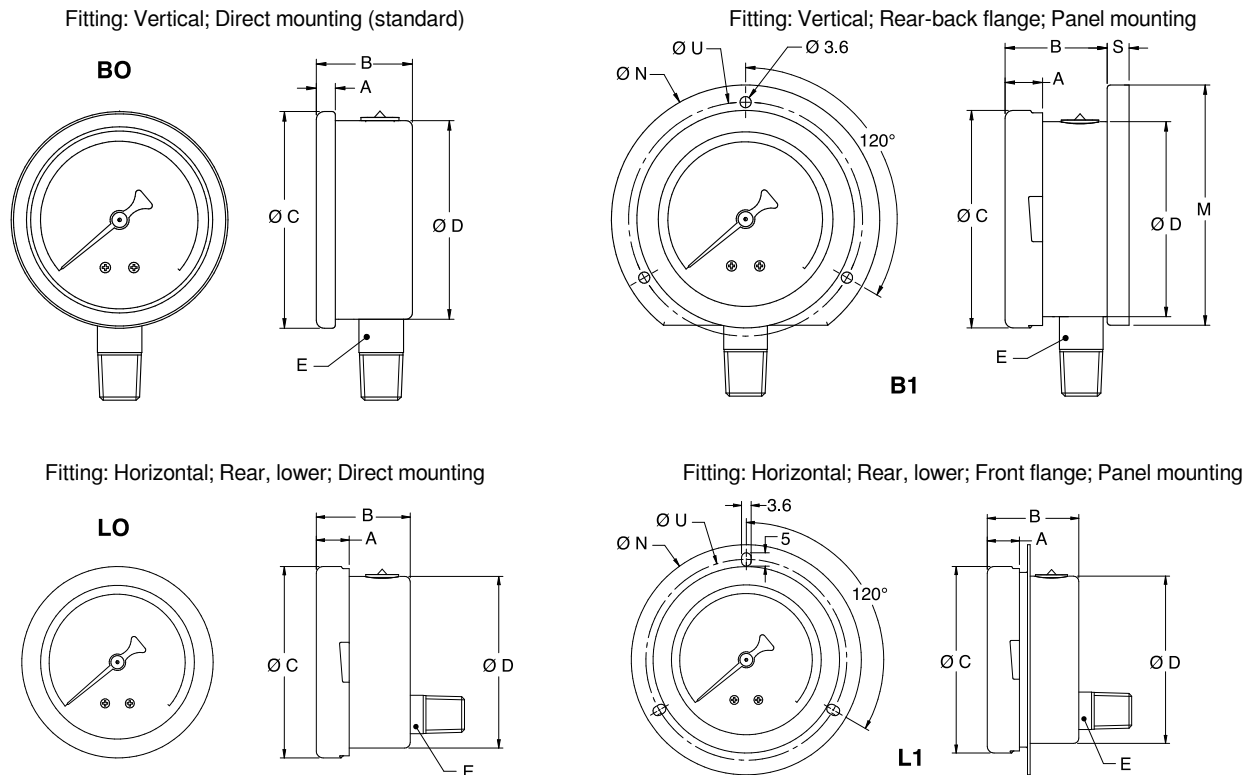
Code	Reference	Measuring scale
812 610	P103 0...1.6	0... 1.6 bar
812 611	P103 0...2.5	0... 2.5 bar
812 612	P103 0...4	0... 4 bar
812 613	P103 0...6	0... 6 bar
812 614	P103 0...10	0... 10 bar
812 615	P103 0...16	0... 16 bar
812 616	P103 0...25	0... 25 bar
812 617	P103 0...40	0... 40 bar

Options: Types, certificates: on request

Option: Filling liquids

Code	Reference	Description
812 001	Glycerin	Glycerine filling for gauge Ø 63; Temperature +10...65 °C
812 003	Silicone oil	Silicone oil filling for gauge Ø 63; Temperature -10...+65 °C

DIMENSIONS [mm]



Mounting	A	B	Ø C	Ø D	E	Ø N	Ø U	M	S	Poids [g]
B0	5	31.5	68	62.5	SW.14	-	-	-	-	189
L0	12	33	69.7	62.5	SW.14	-	-	-	-	209
B1	12	33	69.7	62.5	SW.14	86	75	77	7	254
L1	12	33	69.7	62.5	SW.14	86	75	-	-	240

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