

# Bourdon tube pressure gauge "all stainless steel", Diam. 100 P101



- Movement in stainless steel
- Case: Diam. 100 mm
- Measuring ranges from -1 ... 0 up to 1600 bar

## APPLICATIONS

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

## DESCRIPTION

Pressure gauges P101 are in conformity with standard EN 837-1. With a stainless steel design, this model is suitable for a large number of industrial applications.

To suit lines with vibrations, case may be filled up with glycerine or silicone oil. These fluids to diminish the unstable movements of needle to facilitate the readings. At the same time, they protect and 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 1.0
Type	Dry case, (Option: filling)
Ambient temperature	0 to 40 °C
Storage temperature	-40 to +65 °C (dry case) -20 to +65 °C (filled case)
Operating temperature	100 °C max. (Max. 60 or 90 °C acc. filling fluid)
Temperature drift	Of reading, max. $\pm 0.4\%$ / 10 °C if operating temperature is different from 20 °C
Measuring ranges	From -1 ... 0 up to 0 ... 1600 bar
Movement	Bourdon tube Type C (< 100 bar) Helicoidal (> 100 bar)
Protection	IP 54 / IP 65
Fitting	Male: 1/2" BSP or NPT <i>Other fitting on request</i>

### Pressure limits:

Static pressure	Full scale value
Dynamic pressure	0.9 x Full scale value
Instantly	1.3 x Full scale value if $\leq 100$ bar 1.15 x Full scale value if $> 100$ bar

### Materials:

Weld sealing	Argon TIG welding
Bourdon tube	AISI 316 L
Movement	AISI 304
Case and ring	AISI 304
Gasket	Neoprene
Dial	Aluminum, black marks on white background
Pointer	Aluminum, black color; Adjustable zeroing
Window	SEKURIT glass

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

**BAMO** INTERNATIONAL

22, Rue de la Voie des Bans · Z.I. de la gare · 95100 ARGENTEUIL

Tel +33 (0)1 30 25 83 20 Web [www.bamo.eu](http://www.bamo.eu)

Fax +33 (0)1 34 10 16 05 E-mail [export@bamo.fr](mailto:export@bamo.fr)

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**P101**

25-06-2018

D-812.50-EN-AB

PR

812-50/1

## CODE NUMBERS AND REFERENCES

### Standard models:

- Case Diam. 100 mm
- Fitting: Stainless steel 1/2" BSP
- Vertical - Direct mounting
- Class 1
- Case and ring: AISI 304
- Dry (Supply without filling liquid)
- Window: SEKURIT glass

Code	Reference	Measuring scale
812 626	P101 04 -1 ... 0	-1 ... 0 bar
812 628	P101 04; -1 ... +1.5	-1 ... 1.5 bar
812 630	P101 04 -1 ... 5	-1 ... 5 bar
812 635	P101 04; 0 ... 1.6	0... 1.6 bar
812 636	P101 04; 0 ... 2.5	0... 2.5 bar
812 637	P101 04 0 ... 4	0... 4 bar
812 638	P101 04 0 ... 6	0... 6 bar
812 639	P101 04 0 ... 10	0... 10 bar
812 640	P101 04 0 ... 16	0... 16 bar
812 641	P101 04 0 ... 25	0... 25 bar
812 642	P101 04 0 ... 40	0... 40 bar

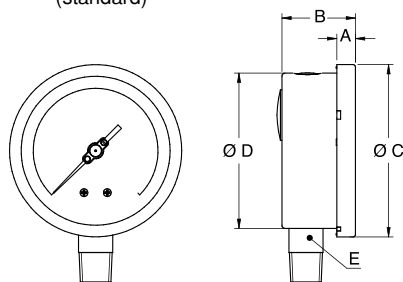
Options, types, certificates: on request

### Options: Filling liquids

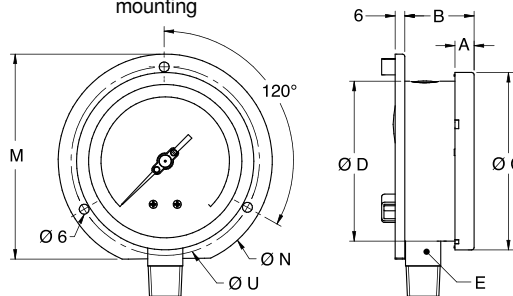
Code	Reference	Description
812 002	Glycerine	Gauge filling with glycerine; for gauge diam. 100 mm, Temperature +10 to +60 °C
812 004	Silicone oil	Gauge filling with silicone oil; for gauge diam. 100 mm, Temperature -10 to +90 °C

## DIMENSIONS (mm)

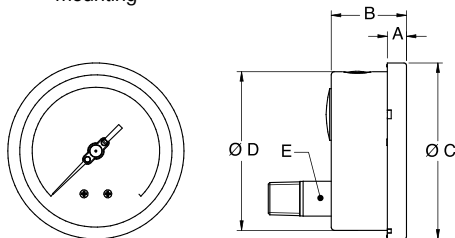
**B0** Fitting: Vertical - direct mounting (standard)



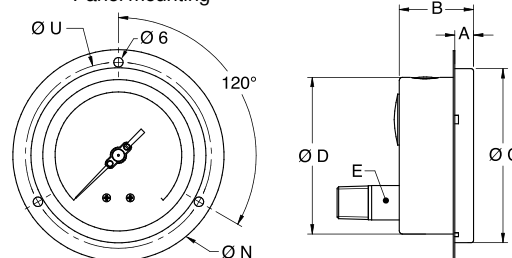
**B1** Fitting: Vertical; Rear-back flange; panel mounting



**LO** Fitting: Horizontal - rear, lower; Direct mounting



**L1** Fitting: Horizontal - rear, lower; Front flange - Panel mounting



Mounting	A	B	Ø C	Ø D	E	M	Ø N	Ø U	Mass (g)
<b>B0 &amp; LO</b>	12	48	111	100	SQ.22	-	-	-	506
<b>B1</b>	12	52	111	100	SQ.22	128	134	118	613
<b>L1</b>	12	48	111	100	SQ.22	-	134	118	580

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