

# bourdon tube pressure gauge all stainless steel construction DS 2.5" (63mm)









PED 2014/68/UE ATEX 2014/34/UE

These instruments are manufactured in compliance with the construction and safety S2 specifications according to standard EN 837-1. They are designed for use in chemical and petrochemical processing industries as well as in conventional power plants and to measure gaseous or liquid media with low viscosity or do not cristalize. They can resist to the most severe operating conditions created by the environment and the process medium. The liquid-filled version is recommended for use on power units, pumps, hydro-cleaning machines, presses, engine compressors, turbines, diesel engines, chemical, petrochemical and refrigerating plants and on machines and equipment where pulsating pressures or mechanical vibrations are present.

### 1.18.1 - Standard Model

Design: EN 837-1.

**Safety designation:** S1 as per EN 837-1.

**Ranges:** from 0...15 to 0...15000 psi; (from 0...1 to 0...1000 bar),

(or other equivalent units).

Accuracy class: 1.6 as per EN 837-1.

Ambient temperature: -4...+149 °F (-20...+65 °C). Process fluid temperature: max + 212°F (+100 °C).

**Thermal drift:**  $\pm 0.4 \%/10 \degree \text{C}$  of range (starting from  $68\degree F - 20\degree \text{C}$ ).

Working pressure:

75% of FSV for static pressure;

66% of FSV for pulsating pressure.

Over pressure limit (15 min max):

25% of FSV for pressure ranges  $\leq 1500 \text{ psi}$  (100 bar);

15% of FSV for pressure ranges 1500...9000 psi (100...600 bar);

10% of FSV for pressure ranges over  $9000\ psi$  (600 bar).

Protection degree: IP 55 as per EN 60529/IEC 529.

**Socket material:** AISI 316L st.st. **Bourdon tube:** AISI 316L st.st.

Case: stainless steel.

Ring: stainless steel, bayonet lock.

Window: polycarbonate.

Movement: stainless steel.

**Dial:** plastic white with black markings. **Pointer:** adjustable, aluminium, black.

### 1.18.2- Fillable Model

**Safety designation:** S2 as per EN 837-1.

Protection degree: IP 67 as per EN 60529/IEC 529.

Ring: stainless steel, crimped.

**Pointer:** not adjustable, aluminium, black. **Other features:** as Standard Model.

### 1.18.3 - Filled Model

**Safety designation:** S2 as per EN 837-1.

Damping liquid: glycerine 98% or silicon oil.

Ambient temperature:

+32...+149 °F (0...+65 °C) with glycerine filling;

-4...+149 °F (-20...+65 °C) with silicon oil filling.

**Process fluid temperature:** max +149°F (+65 °C).

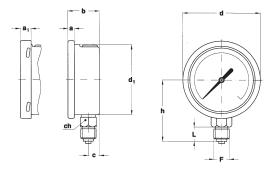
Protection degree: IP 67 as per EN 60529/IEC 529.

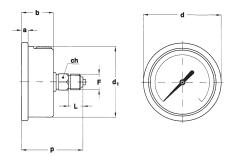
Ring: stainless steel, crimped.

**Pointer:** not adjustable, aluminium, black. **Other features:** as Standard Model



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# **A - LOWER CONNECTION**

# **D** - BACK CONNECTION

Mounting	F	a	a <sub>1</sub>	b	С	d	d <sub>1</sub>	h	p	L	ch	Weight (1)
Lower	<b>21M</b> - G 1/4 A	0.22"	0.37"	1.10"	0.39"	2.67"	2.46"	2.13" - 2.17"		0.51"	0.55"	0.28 lbs
	<b>23M</b> - 1/4-18 NPT	(5,6)	(9,5)	(28)	(10)	(68)	(62,6)	(54,3 - 55,3)		(13)	(14)	(0,13 kg)
Back	21M - G 1/4 A	0.22"	0.37"	1.10"		2.67"	2.46"		2.11" - 2.15"	0.51"	0.55"	0.30 lbs
	<b>23M</b> - 1/4-18 NPT	(5,6)	(9,5)	(28)		(68)	(62,6)		(53,8 - 54,8)	(13)	(14)	(0,14 kg)

dimensions: inches (mm)

(1) add 0.15 lbs (0,07 kg) when filled

### **OPTIONS**

Model	standard	fillable	filled
B - "U"-clamp, for back connection pressure gauges		•	•
C - Back flange, for lower connection pressure gauges	•	•	•
E - Front flange, for back connection pressure gauges		•	•
<b>2N2</b> - ATEX II 2GD Ex h X - T.a20+60 °C (2)			<b>•</b> (3)
<b>2N0</b> - ATEX II 2GD Ex h X - T.a. 0+60 °C (2)			•
P01 - Suitable for filling with silicone		•	
\$10 - Silicone filling			•
G11 - Glycerine filling mixture			•
T37 - Glass tempered window (1)	•	•	•
T32 - Safety glass window	•		

- (1) Safety code: S1 as per EN 837-1
- (2) See catalog sheet about ATEX execution
- (3) to be ordered with option S10

# "HOW TO ORDER" SEQUENCE

Section / Model /Case / Mounting / Diameter / Range / Process connection / Options

1 18 1 A C 21M B, C, E
2 D 23M 2N2...T32

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TEL. +39 0322 253200 - FAX +39 0322 253232