



**bourdon tube test gauges**  
**all stainless steel construction, "solid-front"**  
**class 0,25%**  
**DS 6" (150mm)**



These instruments have been designed for laboratories, instrument testing or recalibration facilities and to be used in other applications where accuracy and repeatability are of primary importance. These instruments have a solid separating wall in stainless steel, placed between the dial and the elastic element and an integral blow out back that is released from the case whenever a pressure is created inside the case, due to leaks or accidental ruptures of the elastic element. The process fluids should be gases or liquids, they must not have high viscosity and must not cristalize. The wetted parts in AISI 316L allow to use them in the worst working conditions determined by aggressive medium and environment. Upon request we can supply the calibration certificate issued by an Internationally recognized laboratory of ACCREDIA (Ex S.I.T. - Italian Calibration Service).

### 1.25.1 - Standard Model

**Design:** EN 837-1.

**Safety designation:** S3 as per EN 837-2.

**Accuracy class:** 0,25 as per EN 837-1.

**Ambient temperature:**  $-4...+149\text{ }^{\circ}\text{F}$  ( $-20...+65\text{ }^{\circ}\text{C}$ ).

**Process fluid temperature:**  $+149\text{ }^{\circ}\text{F}$  (max  $+65\text{ }^{\circ}\text{C}$ .)

**Calibration temperature:**  $68\text{ }^{\circ}\text{F}$  ( $+20\text{ }^{\circ}\text{C}$ ).

**Thermal drift:**  $\pm 0,4\%$  /10 K of range (starting from  $68\text{ }^{\circ}\text{F}$  -  $20\text{ }^{\circ}\text{C}$ ).

**Working pressure:** max 75% of FSV

**Overpressure limit:**

25% of FSV for ranges up to  $1450\text{ psi}$  (100 bar);

15% of FSV for ranges over  $1450\text{ psi}$  (100 bar).

**Protection degree:** IP 55 as per IEC 529.

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

**Bourdon tube:** AISI 316L st.st. seamless tube.

**Case:** stainless steel.

**Ring:** stainless steel, bayonet lock.

**Blow out disk:** stainless steel.

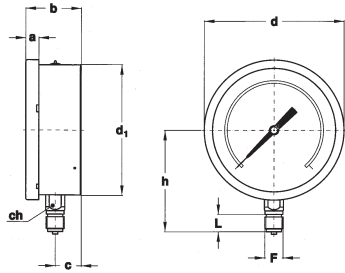
**Window:** safety glass.

**Movement:** high precision, horology alloy.

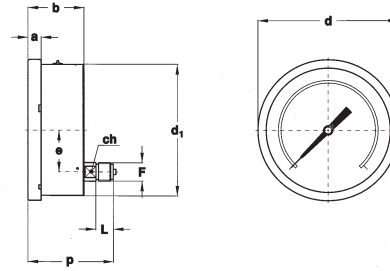
**Dial:** aluminium, white with black markings and anti-parallax mirror band.

**Pointer:** adjustable, aluminium, black, knife-edge micrometer.

RANGE	Minor graduation	Figure interval	bar	kPa	MPa	psi
0...1	0,005	0,1	◆		◆	
0...1,6	0,005	0,1	◆		◆	
0...2,5	0,01	0,1	◆		◆	
0...4	0,02	0,2	◆		◆	
0...6	0,02	0,5	◆		◆	
0...10	0,05	1	◆		◆	
0...16	0,05	1	◆		◆	
0...25	0,1	1	◆		◆	
0...30	0,1	2	◆		◆	◆
0...40	0,2	2	◆		◆	
0...60	0,2	5	◆			◆
0...100	0,5	10	◆	◆		◆
0...160	0,5	10	◆	◆		◆



**A - LOWER CONNECTION**



**D - BACK CONNECTION**

Mounting	F	a	b	c	d	d <sub>1</sub>	e	h	p	L	ch	Weight
Lower	<b>41M</b> G 1/2 A	0.59" (15)	2.51" (64)	1.14" (29)	6.33" (161)	5.92" (150,5)		4.60" (117)		0.78" (20)	0.86" (22)	2.62 lbs (1,19 kg)
Back	<b>43M</b> 1/2-14 NPT	0.59" (15)	2.51" (64)		6.33" (161)	5.92" (150,5)	1.88" (47,8)		3.83" (97,5)	0.78" (20)	0.66" (17)	2.42 lbs (1,10 kg)

dimensions : inches (mm)

**PRESSURE GAUGE HOLDER CASE**



Instruments with radial connection can be supplied of pressure gauge holder case, code **5VAL**.

**OPTIONS**

<b>C</b> -	Back flange, for lower connection pressure gauges
<b>CE1</b> -	ACCREDIA certificate (pressure gauges)
<b>P02</b> -	Oxygen service

**"HOW TO ORDER" SEQUENCE**

Section / Model / Case / Mounting / Diameter / Range / Process connection / Options  
**1 25 1 A G 41M C**  
**D 43M CE1...P02**

