

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



PED 2014/68/UE

These instruments have been designed for laboratories, instrument testing or recalibration facilities and for other applications where accuracy and repeatability are paramount. They are provided with a solid separating wall in stainless steel, placed between the dial and the elastic element and with a blow out back that is released from the case when leaks or an accidental damage of the elastic element produce pressure inside the case. They can be used with fluids or gas that do not have high viscosity and do not crystallize. Thanks to the wetted parts in AISI 316L they can be employed in the worst working conditions due to aggressive ambient conditions or to process fluids. The calibration certificate issued by a laboratory officially recognized by ACCREDIA (Ex S.I.T. - Italian Calibration Service) is available upon request.

1.16.1 - Standard Model

Design: EN837-1.

Safety designation: S3 as per EN 837-2.

Accuracy class: 0,6 as per EN 837-1.

Ambient temperature: -13...+149 °F (-25...+65 °C).

Process fluid temperature: -40...+302°F (-40...+150 °C).

Calibration temperature: 68°F (+20 °C).

Thermal drift: ±0,4 %/10 K of range (starting from 68°F - 20°C).

Working pressure: max 75% of FSV.

Overpressure limit: 30% of FSV.

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

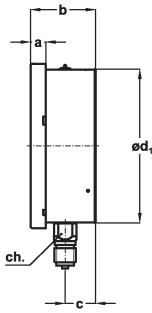
Window: safety glass.

Movement: stainless steel with internal limit stops of minimum and maximum pressure.

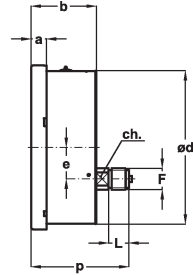
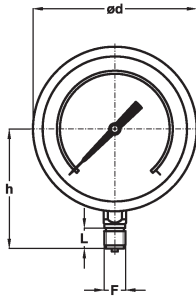
Dial: aluminium, white with black markings and anti-parallax mirror band

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

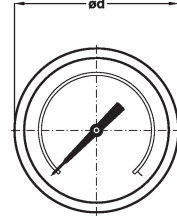
| RANGE | Minor graduation | Figure interval | bar | kPa | MPa | psi |
|----------|------------------|-----------------|-----|-----|-----|-----|
| -1...0 | 0,005 | 0,10 | ◆ | | | |
| 0...0,6 | 0,002 | 0,05 | ◆ | | ◆ | |
| 0...1 | 0,005 | 0,1 | ◆ | | ◆ | |
| 0...1,6 | 0,005 | 0,1 | ◆ | | ◆ | |
| 0...2,5 | 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 | ◆ | ◆ | | ◆ |
| 0...250 | 1 | 10 | ◆ | ◆ | | |
| 0...300 | 1 | 20 | ◆ | ◆ | | ◆ |
| 0...400 | 2 | 20 | ◆ | ◆ | | ◆ |
| 0...600 | 2 | 50 | ◆ | ◆ | | ◆ |
| 0...1000 | 5 | 100 | | | | ◆ |
| 0...2000 | 10 | 100 | | | | ◆ |
| 0...3000 | 10 | 200 | | | | ◆ |
| 0...4000 | 20 | 200 | | | | ◆ |
| 0...6000 | 20 | 500 | | | | ◆ |



A - LOWER CONNECTION



D - BACK CONNECTION



| Mounting | F | a | b | c | ch | ød | ød ₁ | e | h | p | L | Weight |
|----------|------------------|-------|-------|-------|-------|-------|-----------------|-------|-------|--------|-------|-----------|
| Lower | 41M - G 1/2 A | 0.59" | 2.51" | 1.18" | 0.86" | 6.33" | 5.92" | | 4.60" | | 0.78" | 2.49 lbs |
| | 43M - 1/2-14 NPT | (15) | (64) | (30) | (22) | (161) | (150,5) | | (117) | | (20) | (1,13 kg) |
| Back | 41M - G 1/2 A | 0.59" | 2.51" | | 0.66" | 6.33" | 5.92" | 1.22" | | 3.79" | 0.78" | 2.27 lbs |
| | 43M - 1/2-14 NPT | (15) | (64) | | (17) | (161) | (150,5) | (31) | | (96,5) | (20) | (1,03 kg) |

dimensions : inches (mm)

TRANSPORT CASE



Instruments provided with lower connection may be delivered with a transport case, code **5VAL**.

OPTIONS

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| C - Back flange, for lower connection pressure gauges |
| E - Front flange, for back connection pressure gauges |
| CE1 - ACCREDIA certificate (pressure gauges) |
| CE3 - ACCREDIA certificate (vacuum gauges) |
| P02 - Oxygen service |

"HOW TO ORDER" SEQUENCE

Section / Model / Case / Mounting / Diameter / Range / Process connection / Options
1 16 1 A G 41M C...E
D 43M CE1...P02