

bourdon tube pressure gauges HEAVY WORK DS 4", 6" (100-150mm)

MGS19



PED 97/23/CE
ATEX 94/9/CE

These instruments are designed for use in food, beverage, pharmaceutical, cryogenics, chemical and petrochemical processing industries, and in conventional and nuclear power plants. They are built to resist the most severe operating conditions created by the ambient environment and the process medium. The high strength of the sensing element makes these instrument suitable to withstand high overpressure up to 4 times the full scale value and together with the case filling, they are suitable to high dynamic pulsating pressure. An Argonarc welded case/socket strengthens the whole construction.

1.19.1 - Standard Model

Design: EN837-1.

Safety designation: S1 as per EN 837-2.

Ranges: from 0...15 to 0...15000 psi (from 0...1 to 0...1000 bar or equivalent units).

Accuracy class: 1 according to EN 837-1.

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

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

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

Working pressure :

100% of FSV for static pressures;

90% of FSV for pulsating pressures.

Overpressures: up to 400% of FSV (see tables at pag. 2)

Protection degree: IP 55 according to IEC 529.

Socket material: in AISI 316L.

Bourdon tube: in AISI 316L stainless tube.

Case: stainless steel.

Ring: stainless steel, bayonet lock.

Window: safety glass.

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

Dial: aluminium, white with black markings.

Pointer: adjustable, aluminium, black.

1.19.2 - Fillable Model

Protection degree: IP 67 secondo IEC 529.

Other features: as Standard Model.

1.19.3 - Filled Model

Accuracy Class: 1,6 as per EN 837-1.

Damping liquid: glycerine 98%, silicon oil or fluorinated fluid.

Ambient temperature:

+59...+149°F (+15...+65 °C) with glycerine filling;

-49...+149°F (-45...+65 °C) with silicon oil filling;

-76...+149°F (-60...+65 °C) with fluorinated fluid filling.

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

Protection degree: IP 67 as per IEC 529.

Other features: as Standard Model.

OXYGEN INSTRUMENTS

To suit criteria of standard EN837-1/2, the pressure gauges for oxygen service must be solid- front type (with baffle wall and safety bursting back).

Pressure gauges suitable for this service are detailed on MGS21 sheet.



For use in potentially explosive atmosphere, instruments must be designed in conformity to ATEX 94/9/CE. This version is shown in separate data sheet available on request.

