

bourdon tube pressure gauges

ATEX, NACE MATEX, NACE MR 01.75 / ISO 15156

TEX, NACE MR 01.75 / ISO 15156 01.75 / ISO 15156

DS 4", 6" (100-150mm)

MGS37

RB0 - 09/09



| Versions | |
|----------|-----|
| 2G1 | 2D1 |
| II | II |
| 2 | 2 |
| G | |
| | GD |
| T6 | T6 |

Group: all the installations, with exclusion of mines

Category: high level of protection

Explosive atmosphere: inflammable gases

Explosive atmosphere: inflammable gases and dusts

Temperature class: 85°C

These instruments are designed for petrochemical industry. They are built to resist to the most severe conditions created by H₂S and by the environment. The MGS pressure gauges are in conformity with the essential Health and Safety Requirements laid down in European Directive 94/9/EC for Group II, Category 2G or 2GD equipment in the T1...T6 temperature classes. They are NOT suitable for ZONES 0 and 20.

2G1 Version , Gas

4" and 6" (DS 100-150 mm) sizes are available, as **standard** version, or **fillable** version for pressure ranges ≤ 6 bar.

They keep the same functional and constructive features as MGS37 model. They differ from them as follows :

Ambient temperature: -4...+140 °F (-20...+60 °C).

Max process fluid temperature: see table (measured on the lowest point of socket).

Windows: high resistance safety glass.

Dial marking: CE Ex II 2G c T6X TF1, model name and serial/lot number.

Special dial: ranges different from standard, custom artworks and dials without Nuova Fima logo are not available.

Options: plexiglas or tempered glass windows are not available.

Included documentation: Installation manual.

2D1 Version , Gas and Dust

4" and 6" (DS 100-150 mm) are available, as **fillable** version for pressure ranges > 6 bar, or **filled** version.

They keep the same functional and constructive features as MGS37 model. They differ from them as follows :

Damping liquids: glycerine 98%, silicon oil.

Ambient temperature:

+59...+140 °F (+15...+60 °C) for glycerine filling;

-4...+140 °F (-20...+60 °C) for silicon oil filling.

Max process fluid temperature: see table (measured on the lowest point of socket).

Windows: high resistance safety glass.

Dial marking: CE Ex II 2GD c T6X TF1 IP65 T85°C, model name and serial/lot number.

Special dial: ranges different from standard, custom artworks and dials without Nuova Fima logo are not available.

Options: plexiglas or tempered glass windows are not available.

Included documentation: Installation manual.

| Class | Instrument case |
|--------------------|-----------------|
| T6 : 185°F (85°C) | 158°F (70°C) |
| T5 : 212°F (100°C) | 185°F (85°C) |
| T4 : 275°F (135°C) | 212°F (100°C) |
| T3 : 392°F (200°C) | |
| T2 : 572°F (300°C) | |
| T1 : 842°F (450°C) | |

LEHENGOTAK, S. A.

Technical File: TF1 - Rev. 1 - 21/03/08

NUOVA FIMA

-1-

ISO 9001 : 2000
Cert. n° 0433/3



safety pressure gauges "solid-front"
ATEX, NACE MR 01.75 / ISO 15156
DS 4", 6" (100-150mm)

MGS41

RB0 - 09/09

| Versions | |
|----------|-----|
| 2G1 | 2D1 |
| II | II |
| 2 | 2 |
| G | |
| | GD |
| T6 | T6 |

Group: all the installations, with exclusion of mines
Category: high level of protection
Explosive atmosphere: inflammable gases
Explosive atmosphere: inflammable gases and dusts
Temperature class: 85°C



These instruments are designed for petrochemical industry. They are built to resist to the most severe conditions created by H₂S and by the environment. The MGS pressure gauges are in conformity with: to the essential Health and Safety Requirements laid down in European Directive 94/9/EC for Group II, Category 2G or 2GD equipment in the T1...T6 temperature classes; to construction and safety specifications of EN 837-1/S3 e ASME B40.1. In case of leaks or break of the elastic element, the operator is protected by a solid separating wall placed on the front of the instrument and by the blow out back. They are NOT suitable for ZONES 0 and 20.

2G1 Version , Gas

4" and 6" (DS 100-150 mm) sizes are available, as **standard** version, or **fillable** version for pressure ranges ≤ 6 bar.

They keep the same functional and constructive features as MGS41 models. They differ from them as follows :

- Ambient temperature:** -4...+140 °F (-20...+60 °C).
- Max process fluid temperature:** see table (measured on the lowest point of socket).
- Windows:** high resistance safety glass.
- Dial marking:** CE Ex II 2G c T6X TF1, model name and serial /lot number.
- Special dial:** ranges different from standard, custom artworks and dials without Nuova Fima logo are not available.
- Options:** plexiglas or tempered glass windows are not available.
- Included documentation:** Installation manual.

| Class | Instrument case |
|--------------------|-----------------|
| T6 : 185°F (85°C) | 158°F (70°C) |
| T5 : 212°F (100°C) | 185°F (85°C) |
| T4 : 275°F (135°C) | 212°F (100°C) |
| T3 : 392°F (200°C) | |
| T2 : 572°F (300°C) | |
| T1 : 842°F (450°C) | |

2D1 Version , Gas and Dust

4" and 6" (DS 100-150 mm) are available, as **fillable** version for pressure ranges > 6 bar, or **filled** version, .

They keep the same functional and constructive features as MGS41 models. They differ from them as follows :

- Damping liquids:** glycerine 98%, silicon oil or fluorinated fluid.
- Ambient temperature:**
 - +59...+140 °F (+15...+60 °C) for glycerine filling;
 - 4...+140 °F (-20...+60 °C) for silicon oil or fluorinated fluid filling.
- Max process fluid temperature:** see table (measured on the lowest point of socket).
- Windows:** high resistance safety glass.
- Dial marking:** CE Ex II 2GD c T6X TF1 IP65 T85°C, model name and serial/lot number.
- Special dial:** ranges different from standard, custom artworks and dials without Nuova Fima logo are not available.
- Options:** Compensating device and plexiglas windows are not available.
- Included documentation:** Installation manual.

Technical File: TF1 - Rev. 1 - 21/03/08



LEHENGOK, S. A.

