

# bourdon tube pressure gauges all stainless steel construction ATEX versions, DS 4", 6" (100-150mm)

# MGS18-19-36

RB1.1 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 explosive atmospheres in food, processing, pharmaceutical, petrochemical industries and conventional and nuclear power plants. 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  $\leq 6$  bar.

They keep the same functional and constructive features as MGS18-19-36 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.  
**Socket:** with restrictor.  
**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 and epoxy painting are not available.  
**Included documentation:** Installation manual.

| Class              | Instrument case |              |  |
|--------------------|-----------------|--------------|--|
|                    | dry             | filled       |  |
| T6 : 185°F (85°C)  | 158°F (70°C)    | 149°F (65°C) |  |
| T5 : 212°F (100°C) | 185°F (85°C)    |              |  |
| T4 : 275°F (135°C) | 248°F (120°C)   |              |  |
| T3 : 392°F (200°C) | 302°F (150°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 MGS18-19-36 models. 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.  
**Socket:** with restrictor.  
**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 and epoxy painting are not available.  
**Included documentation:** Installation manual.

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

# safety pressure gauges "solid-front" all stainless steel ,construction ATEX versions, DS 4", 6" (100-150mm)

# MGS20-21-40

RB1.1 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 explosive atmospheres in food, processing, pharmaceutical, petrochemical industries and conventional and nuclear power plants. 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 MGS20-21-40 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.
- Socket:** with restrictor.
- 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 and epoxy painting are not available.
- Included documentation:** Installation manual.

| Class              | Instrument case |              |
|--------------------|-----------------|--------------|
|                    | dry             | filled       |
| T6 : 185°F (85°C)  | 158°F (70°C)    | 149°F (65°C) |
| T5 : 212°F (100°C) | 185°F (85°C)    |              |
| T4 : 275°F (135°C) | 248°F (120°C)   |              |
| T3 : 392°F (200°C) | 302°F (150°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 MGS20-21-40 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.
- Socket:** with restrictor.
- 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 devices, plexiglas or tempered glass windows and epoxy painting are not available.
- Included documentation:** Installation manual.

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

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