



Pressure regulators | Oxygen concentrators | Control panels

# Pressure transmitter for medical gases



Smart in sensing

# MG-1 pressure transmitter for medical gases

In order to prevent a safety hazard in an oxygen application, two major design rules have to be followed:

Only materials suitable for oxygen services must be used. Contamination must have been carefully removed from materials in contact with oxygen.

Additionally the cleaned product must be specially packed, in order to maintain the level of cleanliness, and the product must also be marked as suitable for oxygen usage.

In line with the international standards, different levels of cleanliness, different packaging and different oxygen markings are required. The MG-1 offers a wide range of possibilities, so that a solution can be offered which is optimised to your needs.

**Please choose:**

- Level of cleanliness
- Label info
- Packaging



## Breathing gas

Free from oil and grease  
for breathing gas

### 1. Level of cleanliness



1000 mg/m<sup>2</sup>

residual hydrocarbons



no demands

residual particles

### 2. Label info

- "use no oil" *or*
- customised text

### 3. Packaging

- protection cap on the pressure connection

## Medical standard

Per ISO 15001

### 1. Level of cleanliness



220 / 550 mg/m<sup>2</sup>



on request

### 2. Label info

- "oxygen, use no oil" *or*
- "cleaned for oxygen service (ISO 15001)" *or*
- customised text

### 3. Packaging

- protection cap on the pressure connection *and*
- packed in sealed plastic bag *or*
- double packed in sealed plastic bag

## Industrial standard

Free from oil and grease for oxygen per ASTM G93 Level D/E and DIN 19247

### 1. Level of cleanliness



220 / 550 mg/m<sup>2</sup>



no demands

### 2. Label info

- "oxygen, use no oil" *or*
- customised text

### 3. Packaging

- protection cap on the pressure connection *and*
- packed in sealed plastic bag *or*
- double packed in sealed plastic bag

## High industrial standard

Free from oil and grease for oxygen per ASTM G93 Level C

### 1. Level of cleanliness



66 mg/m<sup>2</sup>



no demands

### 2. Label info

- "oxygen, use no oil" *or*
- "oxygen, use no oil (ASTM G93 Level C)" *or*
- customised text

### 3. Packaging

- protection cap on the pressure connection *and*
- packed in sealed plastic bag *or*
- double packed in sealed plastic bag

residual hydrocarbons

residual particles

# Superior solution

## MG-1 pressure transmitter for medical gases

- **Designed with the specific demands of medical gas applications in mind**
- **Certified by an independent test laboratory**
  - BAM\* material certificate
  - BAM\* pressure surge test
- **Sensor technology optimised for oxygen usage**
  - dry sensor element due to thin-film technology
  - fully-welded stainless steel design
- **Pressure ranges**
  - vacuum: -1 ... 0 bar
  - gas distribution: 0 ... 6 bar to 0 ... 16 bar
  - gas storage: 0 ... 200 bar to 0 ... 400 bar
- **Compact design**
  - case diameter 22 mm
- **Complementary range of products for medical gases is available at [www.wika.de](http://www.wika.de)**

\* BAM = Bundesanstalt für Materialforschung und -prüfung  
German Federal Institute for Materials Research and Testing



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