

# PRESSURE GAUGE WITH DIAPHRAGM SEAL MS-100

- ✓ **Casing diameter** Ø100
- ✓ **Material of casing, process connection and measuring element – stainless steel**
- ✓ **Accuracy** 1%

## Use

Burdon tube pressure gauges are mechanical pressure measuring devices, which are sensitive to many factors typical of industrial applications. The use of diaphragm seals will significantly improve the reliability of the pressure gauge, and is often a necessary condition for measurements to be made.

Pressure gauges with appropriate diaphragm seals are used:

**to measure the pressure of media which are:**

- ◆ contaminated, viscous, solidifying,
- ◆ at high or low temperature,
- ◆ chemically reactive;

**in cases of:**

- ◆ mechanical vibration of the system,
- ◆ pulsating pressure;

**where there is a need for:**

- ◆ protection of the system against unsealing in case of a fault with the manometer,
- ◆ aseptic measurement conditions in the food and pharmaceuticals industries.

The full range of diaphragm seals which can be used with pressure gauge is described in detail in Chapter III: Diaphragm Seals. The temperature range of the medium measured using a pressure gauge with diaphragm seal depends on the choice of diaphragm seal and may lie between -60 and +315°C.

With an appropriate selection of pressure gauge and diaphragm seal, taking into account the width of the measurement range, the measurement accuracy of the unit is in accordance with the precision class of the pressure gauge. Detailed recommendations concerning the range of usability of diaphragm seals combined with manometers are contained in Chapter III: Diaphragm Seals.



## Technical data

**Standard measurement ranges:**

0...1, 1.6, 2.5, 4, 6, 10, 16, 25, 40, 60, 100, 160, 250, 400 bar  
-1...0, 0.6, 1.5, 5, 9, 15 bar

**Accuracy** 1%

**Diameter of the casing** Ø100

**Material of the casing** 0H18N9 (304ss)

**Material of process connection and measuring element** H17N13M2T (316Ti),

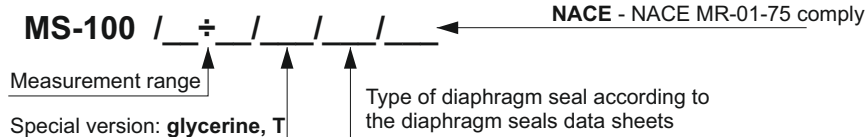
**Process connection** diaphragm seal

**Process connection outlet** bottom (special version: back)

## Special versions

**glycerine T** casing filled with glycerine  
back connection

## Ordering procedure



**Example:** MS-100 pressure gauge / range 0 ÷ 6 bar / glycerine / DN50PN40 diaphragm seal

**MS-100 / 0 ÷ 6 bar / glycerine / S-P-DN50PN40**