

Industrial pressure gauges MS-100K

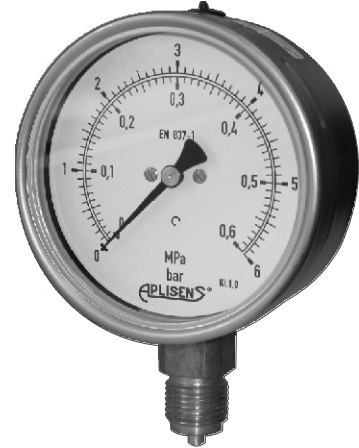
- ✓ **Casing diameter** Ø100
- ✓ **Material of casing, process connection and measuring element – stainless steel**
- ✓ **Accuracy 1%**

Application, construction

MS-100 pressure gauges are applicable to the measurement of the pressure of liquids and gases at temperatures up to 150°C. The range of pressures of the measured medium should correspond to 3/4 of the reading range of the pressure meter for constant pressures or 2/3 of the reading range for pulsating pressures. The casing box is made of stainless steel and has a window made of industrial glass. The pressure gauge's measuring element and process connection are made of stainless steel (or brass for version with 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	G1/2" or M20×1.5
Process connection outlet	bottom (special version: back)



Operating temperature range	-20...60°C
Medium temperature range	0...150°C
Degree of protection	IP 54
	(IP 65: glycerine version)

Special versions

glycerine	casing filled with glycerine
T	back connection

Pressure gauges with diaphragm seals

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;

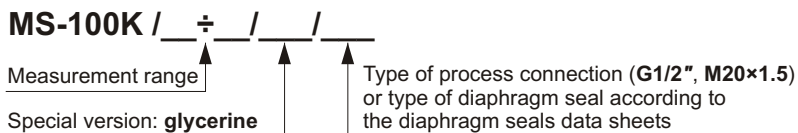
where there is a need for:

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

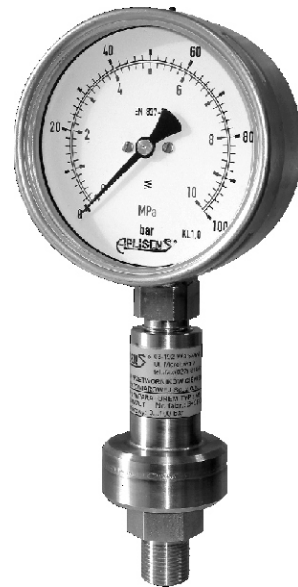
The full range of diaphragm seals which can be used with pressure gauge is described in detail in Chapter III: Diaphragm Seals. The temperature range of the medium measured using a pressure gauge with diaphragm seal depends on the choice of diaphragm seal and may lie between -60 and +315°C.

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.

Ordering procedure



Example



MS-100K manometer with S-Mazut diaphragm seal for measurement of high-viscosity, high-temperature media

Example: MS-100K pressure gauge / range 0 + 6 bar / glycerine / G1/2" process connection

MS-100 / 0 ÷ 6 bar / glycerine / G1/2"