

pressure gauges with electric contacts all stainless steel construction DS 6" (150mm)

MCE20



CE Compliance to requirements of
LVD 73/23/EEC - PED 97/23/EC

These instruments are manufactured in accordance with the safety norms prescribed by UNI 8541, DIN 16006 e ANSI B40.1. They are used to control the electrical operation of compressors, pumps, presses, hydraulic and pneumatic equipments, chemical and petrochemical plant. In the event of leakage or break of sensing element, the operator is protected by a solid baffle wall placed on the instrument front and by the rear blow out wall. The contacts open or close the circuit depending on the position of the indicating pointer and they are adjustable over the whole range. For application on severe working conditions, such as rapid and frequent pressure change, vibration and pulsation, they are manufactured with the case liquid filled. The filling drastically reduce the effects of such factors as well as those caused by the corrosive atmosphere, making longer life and better performances of the pressure gauge and their electric contacts. They are also available with inductive contacts intrinsically safe.

1.M3.1 - Standard Model

Ranges: from 0...15 to 0...20000 psi (from 0...1 to 0...1600 bar or equivalent units).

Mechanical contact: sliding contact, magnetic snap-action, electronic, inductive.

Accuracy: $\pm 1,0\%$ as per DIN 16085 (1).

Ambient temperature: $-13...+149\text{ }^{\circ}\text{F}$ ($-25...+65\text{ }^{\circ}\text{C}$).

Process fluid temperature: *max* $+212\text{ }^{\circ}\text{F}$ ($+100\text{ }^{\circ}\text{C}$).

Working pressure: *max* 75% of the full scale value.

Over pressure: not suitable.

Protection: IP 55 as per IEC 529.

Socket material: AISI 316L st.st.

Elastic element: AISI 316L st.st.

Case: stainless steel.

Ring and blow out disk: stainless steel.

Window: plastic.

Movement: stainless steel.

Dial: aluminium, white with black markings.

Pointer: not adjustable, aluminium, black.

1.M3.3 - Filled Model, Lower connection only

Mechanical contact: magnetic snap-action, electronic, inductive.

Accuracy: $\pm 1,6\%$ as per DIN 16085 (1).

Process fluid temperature: *max* $+149\text{ }^{\circ}\text{F}$ ($+65\text{ }^{\circ}\text{C}$).

Protection: IP 65 as per IEC 529.

Filling liquids: silicone dielectric oil.

Other features: as Standard Model.

(1) The addition of mechanical electric contacts affects the accuracy of instruments such that 1% becomes 1,5%, 1,6% becomes 2,4% etc. (add the 50% of accuracy; if the contact is of the magnetically assisted type, this value can't be added within the $\pm 5\%$ of setting point).

