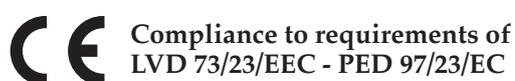


# pressure gauges with electric contacts

## all stainless steel construction

### DS 4" (100mm)

# MCE18



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

They are used to control the electrical operation of compressors, pumps, presses, hydraulic and pneumatics equipment, chemical and petrochemical plant. 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 reduces the effect of such factors as well as those caused by a corrosive atmosphere, giving longer life and better performances of the pressure gauge and their electric contacts. They are also available with inductive contacts intrinsically safe.

#### 1.M2.1 - 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 UNI 8293 - 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:** stainless steel, bayonet lock.

**Window:** plastic.

**Movement:** stainless steel.

**Dial:** aluminium, white with black markings.

**Pointer:** not adjustable, aluminium, black.

#### 1.M2.3 - Filled Model

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

**Accuracy:**  $\pm 1,6\%$  as per UNI 8293 - DIN 16085 (1).

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

**Filling liquid:** silicon oil.

**Protection:** IP 65 as per IEC 529.

**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).

