

**diaphragm pressure gauge
for absolute pressures
DS 4", 6" (100-150mm)**

MN12/18 ABS



The measurement element composed by a concentric waving diaphragm, separates an upper housing called "of reference" which is empty, from a lower housing where the fluid pressure gets in. The upper housing is isolated by a bellows from the atmospheric pressure and it allows to transmit the bending diaphragm movement, under the fluid pressure action, to the pointer through a joint and a linkage. In order to be a suitable support for the diaphragm and to ensure a high instrument resistance to overpressure, the upper part of the reference housing is as rippled as the diaphragm. The instrument case is exposed to the atmospheric pressure therefore it is possible to install optional accessories inside or outside it.

2.43.1 - Standard Model

- Ranges:** from 0...60 to 0...1600 mbar Abs, or equivalent units.
- Accuracy :** 1,6 as per EN 837-3, at 68 °F (20°C) or a value of specify temperature in order.
- Ambient temperature:** -13...+149 °F (-25...+65 °C).
- Process fluid temperature:** +212 °F (+100 °C).
- Working pressure:** max 75% of the FSV.
- Overpressure:** max 3,5 bar abs for ranges ≤400 m bar abs;
max 6 bar abs for ranges 0,6...1,6 bar abs.
- Thermal drift:** ± 0,6% every ± 50°F (± 10° C) of ambient temperature
- Protection:** IP 55 as per EN 60529/IEC 529.
- Process connection:** AISI 316L st.st.
- Elastic element:** AISI 316L st.st. diaphragm.
- Seal bellows:** AISI 321 st.st.
- Case:** AISI 304 st.st.
- Ring:** AISI 304 st.st. bayonet lock.
- Window:** glass, 4 mm thick.
- Movement:** stainless steel with sector stiffened.
- Dial:** aluminium, white with black markings.
- Pointer:** adjustable, aluminium, black.

RANGE
mbar abs
0...60
0...100
0...160
0...250
0...400
0...600
0...1000
0...1600

