

**diaphragm pressure gauge**  
**DS 4", 6" (100-150mm)**  
**threaded connection**

# MN12/18



The sensing element is an elastic diaphragm, with concentric corrugations that drives the amplifying movement through a ball-joint. They are designed to measure pressure or vacuum of viscous, sedimentous, crystallisable or corrosive fluids. Compared to the bourdon tube system they are more robust and are better able to withstand overpressure or aggressive fluids.

**2.42.1 - MN12/18**

**Design:** EN 837-3.

**Ranges:** from 0...10 INWC to 0...360 psi, (from 0...25 mbar to 0...25 bar), vacuum and combined vacuum/ pressure (or equivalent units).

**Accuracy class:** 1,6 as per EN 837-3.

**Ambient temperature:** -13...+149°F (-25...+65 °C).

**Process temperature:** max. +212°F; +100 °C.

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

**Overpressure limit:** 25% of the full scale value.

**Thermal drift:** ±0,6% every ±10°C of ambient temperature.

**Protection:** IP 55 as per EN 60529/ IEC 529.

**Process connection:** AISI 316L st.st.

**Elastic element:** AISI 316 Ti st.st. diaphragm.

**Diaphragm gasket:** PTFE.

**Case:** acciaio inox st.st.

**Ring:** acciaio inox st.st., bayonet lock.

**Window:** tempered glass.

**Movement:** stainless steel.

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

**Pointer:** aluminium, micrometric adjustable.

**Special version:**

- **high overpressure** : 10 time the FSV but not over 30 psi (2 bar) for pressure ranges from 0...10 INWC to 0...6 psi (25...400 mbar); 5 time the FSV but not over 600 psi (40 bar), for pressure ranges 10...360 psi (0,6...25 bar).

**2.45.1 - MN12/18/T**

**Process connection:** AISI 316L, PTFE coated.

**Elastic element:** AISI 316 Ti st.st. diaphragm, PTFE coated.

0...1 bar
0...1,6 bar
0...2,5 bar
0...4 bar
0...6 bar
0...10 bar
0...16 bar
0...25 bar
0...25 mbar
0...40 mbar
0...60 mbar
0...100 mbar
0...160 mbar
0...250 mbar
0...400 mbar
0...600 mbar

-0,6...1 bar
-1...0,6 bar
-1...1,5 bar
-1...3 bar
-1...5 bar
-1...9 bar
-1...15 bar
-1...24 bar
-10...15 mbar
-15...10 mbar
-15...25 mbar
-25...15 mbar
-20...40 mbar
-40...20 mbar
-40...60 mbar
-60...40 mbar
-60...100 mbar
-100...60 mbar
-100...150 mbar
-150...100 mbar
-150...250 mbar
-250...150 mbar
-200...400 mbar
-400...200 mbar
-400...600 mbar
-600...400 mbar

-25...0 mbar
-40...0 mbar
-60...0 mbar
-100...0 mbar
-160...0 mbar
-250...0 mbar
-400...0 mbar
-600...0 mbar
-1...0 bar

