



6.13 Pressure tests

6.13.1 Pressure test for sanitary installations (DIN 1988)

- ▶ Use pressure gauges which can measure a pressure difference of 0.1 bar.
- ▶ The pressure gauge must be fitted at the lowest point of the installation.
- ▶ The installation must not yet be concealed.
- ▶ The pipes are filled with filtered water without air.
- ▶ Then follows another 30-minute test in which the pressure must not drop by more than 0.6 bar (0.1 bar per 5 minutes) and the installation must remain watertight.

Two tests are to be conducted, an introductory test and a main test.

The introductory test

- ▶ The pressure test takes place at a pressure of 15 bar, i.e. the maximum permitted working pressure of 10 bar, plus 5 bar extra.
- ▶ The installation must be put under this pressure twice for 30 minutes, with an interval of 10 minutes.

The main test

- ▶ The main test must take place immediately after the introductory test.
- ▶ This test must last for 2 hours.
- ▶ The pressure measured in the introductory test must not have dropped by more than 0.2 bar after these 2 hours.
- ▶ The installation must remain 100% watertight.

6.13.2 Pressure test for radiator installation (DIN 18380)

- ▶ The installer must check the sealing of the water pipes before these are concealed with cement, plaster or other materials.
- ▶ Use pressure gauges which can measure a pressure difference of 0.1 bar.
- ▶ The pressure gauge must be fitted at the lowest point of the installation.
- ▶ The heating installation must be put under water pressure and de-aerated (if necessary protected against frost).
- ▶ The heating pipe must undergo a pressure test at a pressure 1.3 times greater than the total pressure of the installation (static pressure), with at least 1 bar over-pressure at each point of the installation.
- ▶ The pressure test must take place over 24 hours.
- ▶ The pressure must not drop by more than 0.2 bar.
- ▶ The installation must remain watertight.
- ▶ Once the water has cooled down check whether all the pipes and fittings have remained watertight.

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