

Testing, disinfection and flushing

Testing

- 2.78 The whole installation up to the roof tank should be tested hydraulically on completion by subjecting all supply and distribution pipes, fittings and connections to an internal test pressure of 1.5 times the maximum allowable operating pressure (MAOP) for the installation or the relevant part for a maximum of 3 hours.
- 2.79 For systems that do not include any plastic pipes (that is, rigid pipe materials such as copper, stainless steel etc.), the requirement shall be in accordance with BS EN 806-1, BS EN 806-2, BS EN 806-3, BS EN 806-4, BS EN 806-5 and BS 8558.

Testing procedure

- 2.80 The water supply pipelines, joints and fittings shall be tested prior to surrounding, backfilling, building into walls and floors, or other concealment.
- 2.81 All tests shall be performed in convenient sections for each system in the presence of and to the satisfaction of the Distribution Company where requested.
- 2.82 Prior to the commencement of testing, the system shall be thoroughly cleaned by flushing with potable quality water to ensure no foreign matter remains within the pipe.
- 2.83 The pipes shall then be filled and allowed to stand for a period of 24 hours before testing.
- 2.84 During the filling operation, care must be taken to ensure that there is no entrapped air in the system. The test pressure shall be applied gradually by means of a suitable pump connected to the pipe in a manner satisfactory to the Distribution Company.
- 2.85 All gauges used shall be in good operating condition and shall be accompanied by the relevant valid calibration and test certificates and be of a condition that is satisfactory to the Distribution Company.
- 2.86 During the test, all exposed pipes, joints, fittings, valves, etc. shall be carefully examined, and any joint or item showing signs of leakage shall be rejected.
- 2.87 All sections or items rejected shall be removed and replaced, and the test shall be repeated to the satisfaction of the Distribution Company.

Disinfection

- 2.88 For a service connection larger than 50mm in diameter, the following shall be considered:
- (a) Sodium hypochlorite (food grade):
- (i) The system must be filled with chlorinated water at an initial concentration of 20mg/l for a contact period of 1 hour. If the free residual chlorine measured at the end of the contact period is less