

Premises. All other water fittings, meters, backflow prevention devices and valves shall be sized correctly in order to minimise pressure losses.

- 2.23 Where Water Fittings are subjected to excessive pressure due to high water supply pressure or pump pressure or pressure drop, the Responsible Person must ensure a pressure regulator adjusted to the requirements of the Distribution Company is installed.

Surge pressures

- 2.24 Where a Customer is connected directly to a supply pipe, the internal test pressure applied to the installation must take into consideration any transient or surge pressures which may be generated within the system.
- 2.25 Transient pressure increases or surge (water hammer) may be generated by the rapid closure of a valve, for example, float-operated valves, spherical valves or disc valves. When installed, attenuation devices or water hammer arresters may reduce the effects of surge. Pipe and/or fittings manufacturers should be consulted for recommended surge pressure limits whilst designing for such transient situations.

Back-syphonage

- 2.26 The method of installation of all pipes, fittings or apparatus shall be such that:
- (a) the creation of a negative pressure of air in the pipes shall be avoided;
 - (b) pipes, fittings and apparatus shall be free from backflow and back-syphonage at all times and that waste or contamination of the water supply shall be prevented; and
 - (c) backflow is prevented by using the appropriate type of prevention arrangement.

Location of water fittings

- 2.27 Unless they are located in an internal wall which is not a solid wall, a duct which may be readily exposed, or under a suspended floor which may, if necessary be readily removed and replaced, or to which there is access, water fittings should not be:
- (a) located in the cavity of a cavity wall;
 - (b) embedded in any wall or solid floor; or
 - (c) installed below a suspended or solid floor at ground level.

Accessibility of fittings

- 2.28 Except where specifically approved by the Distribution Company, all pipes and fittings shall be arranged so as to be readily accessible and, where enclosed, the casing or duct shall be so constructed as to afford ready means of access to the pipes and fittings for examination, repair, replacement and operation.