Unit 113: Plumbing, heating and ventilation

# Worksheet 6: Cold water systems for I&C properties (tutor)

Complete the tasks in this worksheet as directed by your tutor:

1.What is the title of the Regulation that covers all work and use of water fittings in the UK?

The Water Supply (Water Fittings) Regulations 1999

2.An office building has a cold water storage cistern located on its top floor. The height to the top floor from ground level is 75m. What pressure would be required to lift the water to the cistern?

7.5 bar minimum

3.State the two types of boosted cold water systems:

1: Indirect boosted

2: Direct boosted

4.Why are large I&C cold water storage cisterns constructed using sectional panels?

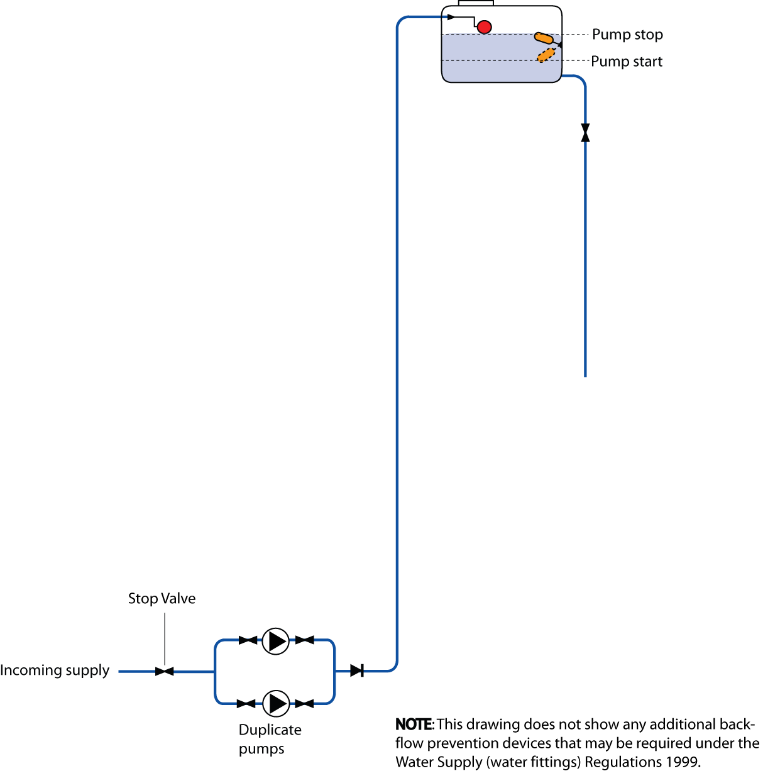
Large storage cisterns are constructed in sections so that access and positioning becomes more achievable. Cisterns can be built in position as the sections are bolted together.

5.Give two materials that I&C cold water cisterns may be constructed from:

1: Glass Reinforced Plastic

2: Galvanised steel

6.In the space below, draw and label two types of boosted cold water systems:

Direct boosted

Pump stop  
Pump start

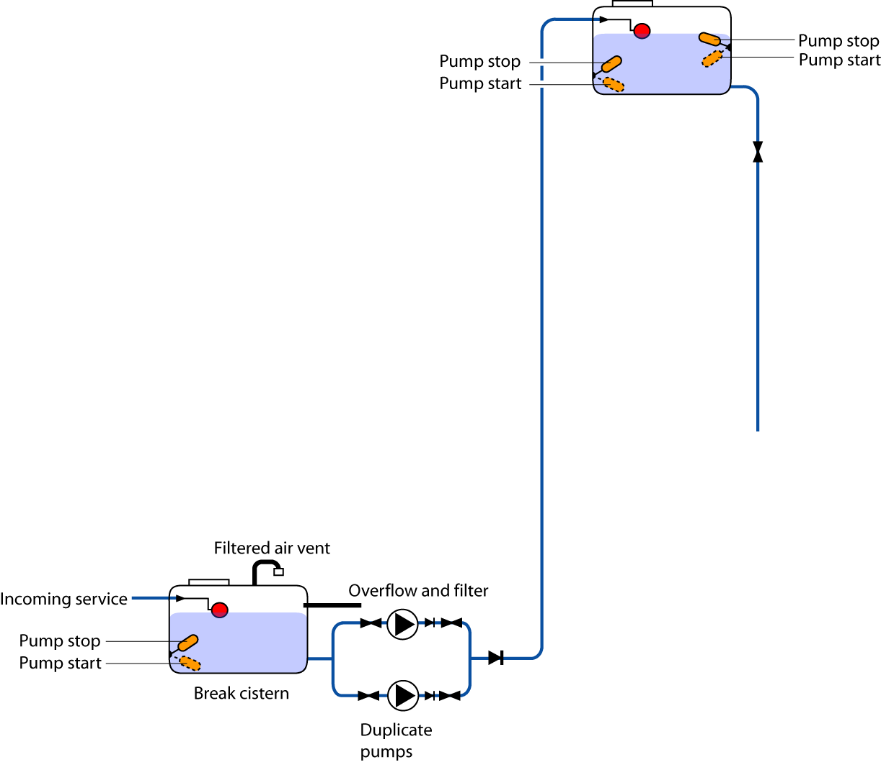
Stop valve

Incoming supply

Duplicate pumps

NOTE: This drawing does not show any additional backflow prevention devices that may be required under the Water Supply (water fittings) Regulations 1999.

Indirect boosted



Pump stop

Pump start

Pump stop

Pump start

Incoming service

Overflow and filter

Duplicate pumps

Filtered air vent

Break cistern

Pump stop

Pump start