TEST CODE SHEET

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**1. TYPE OF TEST(S)**

Accelerated ageing.

**2. BYELAW REQUIREMENT FOR FITTINGS**

Byelaw 42

Every float operated valve ..... shall..... (e) have a float which - (I) is constructed of a material capable of withstanding without leaking any water temperature in which it operates or is likely to operate, and (ii) has a lifting effort such that when not more than half immersed, the valve is capable of droptight closure against the highest pressure to which that valve is likely to be subject.....

**3. BRITISH STANDARDS OR WATER SPECIFICATION, DEEMED TO SATISFY BYELAW REQUIREMENTS**

(See Water Supply Byelaw Guide)

3.1 Fittings with 'kitemarks' which are deemed to satisfy the requirements of byelaws are listed in the directory.

**4. TEST PROCEDURE**

Note Unless stated otherwise the temperature of the test fluid shall be 20 ± 10°C.

4.1 Tests applicable to the following fittings:-

**FLOATS**, plastics
- for float operated valves

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**(A) FLOATS (PLASTICS) FOR FLOAT VALVES** (Derived from BS 2456 : Section 4.1 : Appendix C)

Leakage and hot water test. Floats, both spherical and non-spherical, shall be tested by the method specified below;

APPARATUS

The following apparatus is required

(i) A vessel having cross-sectional dimensions of not less than 50mm greater in each direction than the longest and widest parts of the float to be tested, and having a depth able to contain sufficient water, in addition to the float under test, to ensure that for the period of the test the float is covered by at least 50mm of water.

(ii) A means of heating the water in the vessel to, and maintaining it at 93 ± 5°C or 38 ± 5°C.

(iii) A means of keeping the float submerged to a depth of at least 50mm.

TEST METHOD

(1) Set up the float to be tested in accordance with setting-up procedure IGN 1-50-73 as shown in Figure 1.

(2) Screw the float boss onto the male threaded attachment at the bottom of the vertical rod.

(3) Adjust the height of the vertical rod until the float is submerged to a depth of at least 50mm.

(4) Secure the two clamping screws on the vertical rod either side of the cross-beam to hold the float in position.

(5) Heat the water in the vessel to a temperature of 93 ± 5°C, for grade H (red) or 38 ± 5°C, for grade C (blue) floats.

(6) For grade H (red) floats - maintain the test conditions for a period of 30 days ± 4 hours.
For grade C (blue) floats - maintain the test conditions for a period for 100 hours ± 4 hours.

## 5. ACCEPTANCE CRITERIA

During the test the float shall show no signs of leakage and upon completion of the test, it shall show no signs of deterioration or leakage.

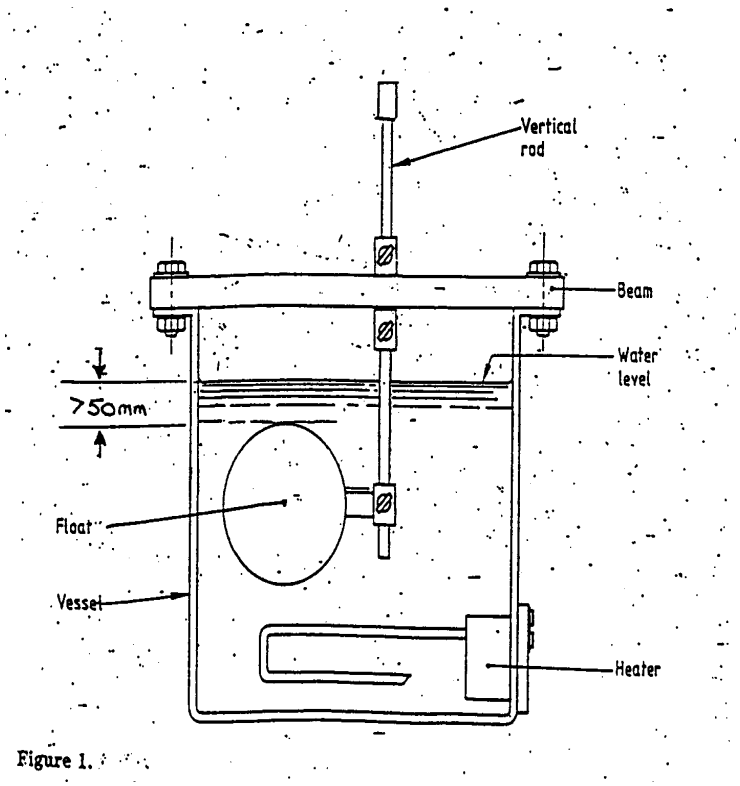


Figure 1.