TEST CODE SHEET

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1. TYPE OF TEST(S)

Tension - cold embrittlement.

2. BYELAW REQUIREMENT FOR FITTINGS

Byelaw 42

Every float operated valve …… shall - (a) have a float which (i) is constructed of a material capable of withstanding, without leaking any water, temperature in which it is likely to operate….

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

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

4. TEST PROCEDURE

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

4.1 Tests applicable to the following fittings:-

FLOATS for float operated valves, all applications.
Plastics

(A) FLOATS (PLASTICS) FOR BALLVALVES (Derived from BS 2456 : Section 4.4 : Appendix E)

Cold embrittlement test. This test determines the resistance of the float to cold embrittlement and should be tested by the method specified below.

APPARATUS

The following apparatus is required:
(i) A suitably sized cold water storage cistern.
(ii) A ballvalve complying with the requirements of BS 1212 : Part 1, 2 or 3.
(iii) A means of reducing water temperature to below freezing.

TEST METHOD

(i) Fill the cistern to the water line with cold water. Connect the BS 1212 ballvalve as for normal installation and attach the specimen float to the end of the lever.
(ii) Constrain the float so that it is immersed to half its overall height in the water, whatever the temperature of the water.
(iii) Lower the temperature until the water in the cistern has frozen and maintain it in that condition for 2 hours ± 15 minutes.
(iv) Allow the ice to melt.
(v) Detach the specimen float.

5. ACCEPTANCE CRITERIA

When tested by the method described above the float shall exhibit no visible damage.