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TEST & ACCEPTANCE CRITERIA

Issue No: 3
Date of issue: March 1998

TEST CODE SHEET

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1. TYPE OF TEST(S)

Porosity.

2. BYELAW REQUIREMENT FOR FITTINGS

Byelaw 42

Every float operated valveshall.....

(d)be capable of withstanding without leaking when closed an internal pressure 1.5 times greater than the pressure to which it will ordinarily be subject.....

Byelaw 43

No float operated valve shall..... convey hot water.....unless

(a) It is construction of materials capable of withstanding without leaking any ordinary operating water temperature to which it is or may be subject.....

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

(See Water Supply Byelaws Guide)

BS1212 Part 1 : Clause 15.a

BS1212 Part 2 : Clause 5.1

BS1212 Part 3 : Clause 24.1

NB BS 1212 does not include requirements meeting Byelaw 43.

4. TEST PROCEDURE

Note Unless stated otherwise the temperature of the test fluid shall be $20 \pm 10^{\circ}\text{C}$.

4.1 Test (s) applicable to the following fittings:

VALVES - float operated, all types

(A) NON-BS FITTINGS

TEST METHOD

The fitting shall be held in the closed position and a hydraulic pressure equal to 1.5 times the claimed maximum operating pressure rating (± 0.5 bar in the range 4 bar to 30 bar) shall be applied to the inlet. The appropriate test pressure shall be raised with water at ambient temperature, and maintained at that level for a period of 15 minutes ± 30 seconds.

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(B) BS FITTINGS

As detailed in extracts from relevant BS's given below.

(i) **BS 1212 Part 1 Float operated valves - piston types**

Clause 15.a Hydraulic test.

Every piston type valve shall be tested, whilst held in the closed position, to a pressure of 300 lbs/sq. in (20 ± 0.5 bar) without leaking or sweating for a duration of 15 minutes \pm 30 seconds.

(ii) **BS 1212 Part 2 Float operated valves - diaphragm type (Brass body)**

Clause 5.1 Hydraulic requirement

Every diaphragm type (brass bodied) valve, whilst held in the closed position, shall be capable of withstanding a hydraulic pressure of 20 bar (± 0.5 bar) without leaking or sweating for a duration of 15 minutes \pm 30 seconds.

(iii) **BS 1212 Part 3 Float operated valves - diaphragm type (plastic body)**

Clause 24.1

Every plastic bodied diaphragm type float operated valve shall be capable of withstanding, whilst held in the closed position, a pressure of 20 bar (± 0.5 bar) without leaking or sweating for a duration of 15 minutes \pm 30 seconds.

5 ACCEPTANCE CRITERIA

ALL FITTINGS, NON-BS AND BS

There shall be no visible indication of leakage or sweating of the fitting due to porosity.