

Test Code Sheet Number	1	1	1	2	8
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TEST & ACCEPTANCE CRITERIA

Issue No: 3
Date of issue: March 1998

TEST CODE SHEET

Sheet 1 of 2

1. TYPE OF TEST(S)

Porosity.

2. BYELAW REQUIREMENT FOR FITTINGS

Byelaw 52

Every water fitting shall be constructed of materials, the nature, the strength and thickness of which.....will prevent, so far as is reasonably practicable, damage from.....

(c) internal water pressure.....

Byelaw 64

Every stopvalve....shall.....

(a) be watertight when closed; and

(b) be watertight when open and subjected to an internal hydraulic pressure 1.5 times the pressure to which it is normally subject.....

Byelaw 87

.....every draw-off tap.....shall.....

(e) be designed when new to withstand, without leaking an internal water pressure 1.5 times that to which it ordinarily be subject.

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

(See Water Supply Byelaws Guide)

BS3456 Part 3 Section 3.9 Clause 22.28

4. TEST PROCEDURE

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

4.1 Tests applicable to the following fittings:

HEATERS

Electric instantaneous - open outlet

(A) NON-BS FITTINGS

TEST METHOD

The outlet shall be temporarily blanked off and a hydraulic pressure equal to 1.5 times the claimed maximum operating pressure rating (± 0.2 bar in the range 1 bar - 4 bar) shall be applied to those parts of the fitting(s) that will be subjected to water pressure under working conditions.

Test Code Sheet Number	1	1	1	2	8
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Issue No: 3
Date of Issue: March 1998

Sheet 2 of 2

If a regulating valve is provided as part of the fitting(s) this shall then be closed and the inlet side additionally subjected to a hydraulic pressure equal to 1.5 times the claimed maximum mains pressure operating rating (± 0.5 bar in the range 4 bar - 30 bar). In both tests the appropriate test pressure shall be raised with water at ambient temperature, and maintained at that level for a period of 5 minutes (± 10 seconds).

(B) BS FITTINGS

TEST METHOD

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

- (i) **STATIONARY INSTANTANEOUS WATER HEATERS** (Derived from BS 3456 Pt 3 Section 3.9)

Clause 22.28 Appliances shall withstand water pressure occurring in normal use.

Compliance shall be checked by subjecting the appliance for 5 minutes ± 10 seconds to a pressure of 1.5 bar ± 0.2 bar. If a regulating valve is provided, the part directly connected to the water mains shall be additionally subjected to a water pressure of 20 bar ± 0.5 bar. After this test, no water shall have leaked out.

5 ACCEPTANCE CRITERIA

ALL FITTINGS, NON-BS AND BS

There shall be no visible indication of leakage from the fitting(s) due to porosity during any of the above tests.