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WBS TEST & ACCEPTANCE CRITERIA
PD.

Issue No: 2
Date of issue: January 1990

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TEST CODE SHEET

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

Porosity

2. **BYELAW REQUIREMENT FOR FITTINGS (see application list overleaf)**

Byelaw 72

Every vacuum breakeror combination of check valve and vacuum breaker shall be

- (b) capable of withstanding without leaking an internal hydraulic pressure 1.5 times the pressure to which it is normally subject.

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

(See Water Supply Byelaws Guide)

BS 6282 Part 2 Clause 9
BS 6282 Part 3 Clause 9
BS 6282 Part 4 Clause 8

- 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 $20 \pm 10^{\circ}\text{C}$.

- 4.1 Test(s) applicable to the following fittings:

DEVICES FOR THE PREVENTION OF CONTAMINATION BY BACKSIPHONAGE

Vacuum breakers
Combined check valves and vacuum breakers

(A) **NON-BS FITTINGS**

TEST METHOD

In accordance with IGN 5-11-03 for vacuum breakers and 5-11-04 for combined check valves and vacuum breakers. a water pressure of 15 ± 0.5 bar shall be applied to the inlet of the valve with water at ambient temperature and maintained for not less than 60 seconds.

(B) **BS 6282 FITTINGS**

TEST METHOD

In accordance with the relevant part of this standard (relevant extracts from Parts 2, 3 and 4 below)

(i) **BS6282 Part 2 Terminal anti-vacuum valves**

Clause 9 Hydraulic Test

A water pressure of 16 bar (WBAS ± 0.5 bar) shall be applied to the inlet of the valve and maintained for not less than 60 seconds. No leakage shall occur.

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(ii) **BS6282 Part 3 In-line anti-vacuum valves**

Clause 9 Hydraulic Test

A water pressure of 16 bar (WBAS \pm 0.5 bar) shall be applied to the inlet of the valve and maintained for not less than 60 seconds. No leakage shall occur.

(iii) **BS6282 Part 4 combined check and anti-vacuum valves**

Clause 8 Component tests

The two component parts of combined check and anti-vacuum valves shall be capable of complying with the following:

- (a) The check valve component shall be tested with the anti-vacuum valve component sealed or locked in the closed position and shall comply with Clause 15 of Part 1 of this standard (WBS - See TCS 1112.15).
- (b) The anti-vacuum valve component shall be tested with a fouling thread placed completely through the waterway of the device during the test and shall comply with Clause 9 of Part 3 of this standard. (WBS - N.B: fouling thread to be replaced by a copper wire or 0.7mm dia.).

5. **ACCEPTANCE CRITERIA**

NON-BS FITTINGS

There shall be no leaking, sweating, cracking or deformation of the envelope but slight leakage from glands and seals is acceptable.

BS 6282 FITTINGS

Part 2 and Part 3 fittings - no leakage shall occur.

Part 4 fittings - see TCS 1112.15 for check valve and Part 3 for anti-vacuum valves.

Vacuum breaker components shall also meet the requirements of TCS's 1113.4, 1211.11, 1314.6 and 5021.3.

Combined fittings - check valve components shall also meet the requirements of TCS's 1111.9, 1111.10, 1112.15, 1211.12, 1312.3, 1313.3, 1313.4 and 2213.6.