TEST CODE SHEET

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1. TYPE OF TEST(S)

Vacuum test.

2. WATER REGULATIONS REQUIREMENTS FOR FITTINGS

Schedule 2

15-(1) …. every water system shall contain an adequate device or devices for preventing backflow of fluid from any appliance, fitting or process from occurring.

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

3.1 Fittings with 'kitemarks' which are deemed to satisfy the requirements of regulations 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:-

HOSE UNION BACKFLOW PREVENTER HA
DN15 to DN32.
Devices for the prevention of contamination by backflow.

(A) HOSE UNION BACKFLOW PREVENTER HA (Derived from prEN W1 108. Clause 6.8)
DN15 to DN32.

TEST METHOD

APPARATUS The following apparatus is required.

Vacuum vessel and connecting pipework. The vacuum vessel shall be provided with a drain cock to remove any water drawn into the vessel during the test.

Vacuum pump, capable of reducing the absolute pressure within the vacuum vessel to 0.2 bar.

Pipes and fittings, of nominal size not less than that of the appliance under test. The pipe connecting the test apparatus to the appliance shall be of the same nominal size as the inlet connection on the appliance, or larger. The distance of the vacuum gauge from the device under test shall be between 100mm and 150mm. The distance between the test fitting and the axis of the vertical suction tube shall not exceed 300mm.

The suction height 'h' shall be 100mm, measured from the surface of the water to the bottom of the air inlet of the device under test.

Vacuum gauges rangeing from, 1 bar absolute to 0.1 bar absolute, accurate to ± 2% of the reading. The gauge connections shall be made in such a way that it does not disturb the flow in the pipework.

Water trap, provided with a cock to allow the trapped water to be drained. The trap shall not so restrict the flow that the requirement cannot be met.

PROCEDURE The procedure shall be as follows:-

(1) Mount the device in the test system in its normal working position. (Reference Figure 68).

(2) Open the full-way valve within 1 second so that the absolute pressure below 0.5 bar is applied to the hose union backflow preventer for at least 5 seconds.

5. ACCEPTANCE CRITERIA

No water shall pass through the device as verified by water not collecting in the water trap.

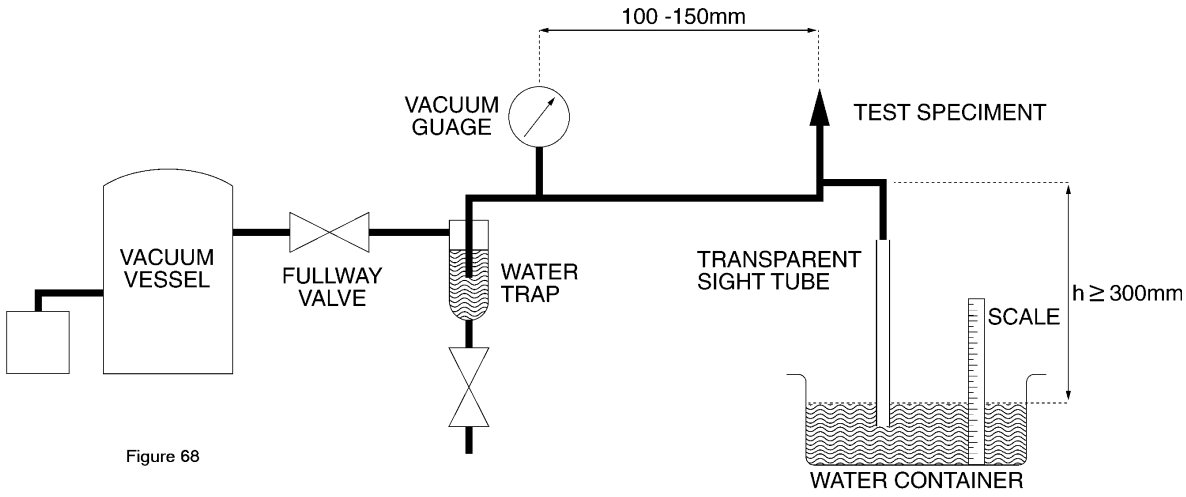

Figure 68