

<b>Test Code Sheet Number</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>14</b>
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WRAS TEST & ACCEPTANCE CRITERIA

Issue No: 1  
Date of issue: July 2000

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

4.1 Tests applicable to the following:-

**PIPE INTERRUPTER WITH ATMOSPHERIC VENT & MOVING ELEMENT DB**  
DN10 to DN20.  
Devices for the prevention of contamination by backflow.

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**(A) PIPE INTERRUPTER WITH ATMOSPHERIC VENT & MOVING ELEMENT DB**

(Derived from CEN TC 164 W1 112 : 1998. Clause 11.2)  
DN10 to DN20.

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.

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

Pipes and fittings, of nominal sizes 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.

Vacuum gauge, 1.0 bar absolute to 0.1 bar absolute, accurate to  $\pm 2\%$  of the reading. The gauge connection shall be made in such a way that it does not disturb the flow in the pipework.

Transparent tube.

Water reservoir.

Scale rule.

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**PROCEDURE** The procedure shall be as follows:-

- (1) Mount the device in the test system in its normal working position. (Reference Figure 51).
- (2) Open the full-way valve within 1 second so that an absolute pressure of below 0.5 bar is applied to the pipe interrupter with elastic membrane, for a time of at least 5 seconds.

5. **ACCEPTANCE CRITERIA**

The water in the transparent tube must remain static throughout the test.

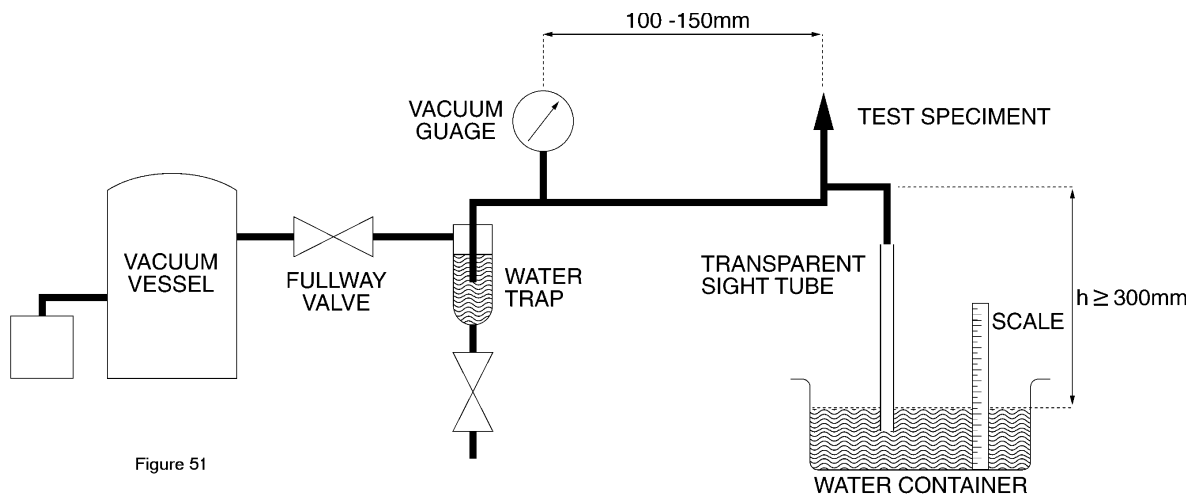


Figure 51

h : distance between the edge at the inlet of the device and the water level