

Test Code					
Sheet	2	2	1	2	17
Number					

TEST CODE SHEET

1. TYPE OF TEST(S)

Vacuum

2. WATER REGULATIONS REQUIREMENTS FOR FITTINGSSchedule 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:-

ANTI VACUUM VALVE

DN8 to DN50.

Devices for the prevention of contamination by backflow.

(A) **ANTI VACUUM VALVE** (Derived from prTC W1 111 : 1998. Clause 11.7)
DN8 to DN50.

TEST METHOD

APPARATUS The following apparatus is required. (Reference Figure 42).

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 20 KPa (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 100 mm and 150 mm.

Vacuum gauges, 100 KPa (1 bar) absolute to 10 KPa (0.1 bar) absolute. The gauge connection shall be made in such a way that it does not disturb the flow in the pipework.

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

Transparent tube.

Water reservoir.

Scale rule.

Test Code					
Sheet	2	2	1	2	17
Number					

Issue No: 1
Date of issue: July 2000

Sheet 2 of 3

PROCEDURE

- (1) Remove all movable parts of the anti-vacuum valve.
- (2) Fit a throttle to the inlet of the valve with a diameter in accordance with Table 42.
- (3) Install the valve in the test rig shown in Figure 42.
- (4) Open the full-way valve within 1 second so that an absolute pressure of below 50 KPa (0.5 bar) is applied to the anti-vacuum valve for a time of least 5 seconds.

Table 42

Nominal size - DN	8	10	15	20	25	32	40	50	65	80
Throttle diameter - mm	4	5	6	7.5	8	10	12	15	20	22

5. ACCEPTANCE CRITERIA

The water column in the transparent tube shall not exceed 100 mm.

Test Code					
Sheet	2	2	1	2	17
Number					

Issue No: 1
Date of issue: July 2000

Sheet 3 of 3

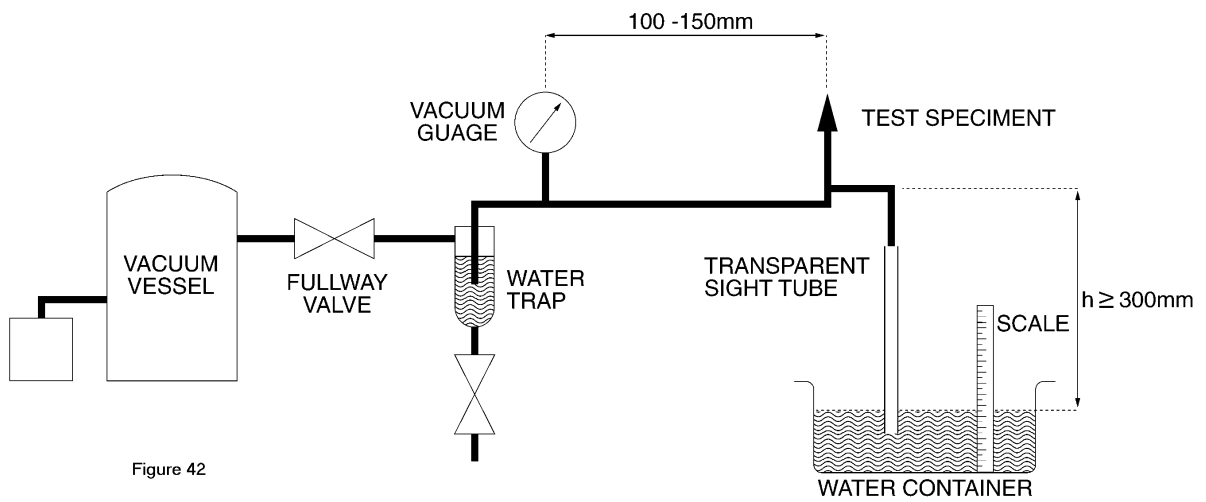


Figure 42

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