TEST CODE SHEET

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1. TYPE OF TEST(S)

Pressure differential at valve closure.

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:-

CHECK VALVES
DN 6 to DN250.
Devices for the prevention of contamination by backflow.

(A) CHECK VALVES (Derived from prEN 164167. Clause 7.5)
DN 6 to DN250.

TEST METHOD

APPARATUS The following apparatus is required.

A supply of water to achieve the test flow rates at the required pressure.

Sight glass.

Scale rule, graduated in mm.

Pressure gauges.

Control valves.

The example of the test equipment shown in Figure 15 is for guidance only.
Laboratory equipment must be designed to ensure that the valve can be tested to verify the requirement.

NOTE: For double check valves each single check valve shall be tested separately. The check valve not being tested shall be either removed or the valve held in the open position.

PROCEDURE The procedure shall be as follows:-

(1) Mount the device in the test system in its normal working position. (Reference Figure 15).

(2) Close all the valves. Open valves ‘3’, ‘4’, ‘6’ and ‘8’. Open valve ‘1’ and fill pipe ‘12’ and branch circuits ‘10’ and ‘13’. Purge the air by means of valve ‘7’ and pipes ‘14’ and ‘11’. Close valves ‘1’, ‘4’ and ‘7’ when the air has been removed from the circuit.

(3) Close valve ‘6’, then open valve ‘1’ slowly until the level in tube ‘14’ is 1500 mm above the level in tube ‘11’. Then close valve ‘1’.

(4) Open valve ‘6’ slightly and wait for the levels in tubes ‘14’ and ‘11’ to achieve equilibrium.

(5) After 5 minutes, measure the pressure differential at which the valve has closed by determining the difference in water levels in tubes ‘11’ and ‘14’.

5. ACCEPTANCE CRITERIA

The pressure differential at which valve closes shall be at least 50 mm water column.

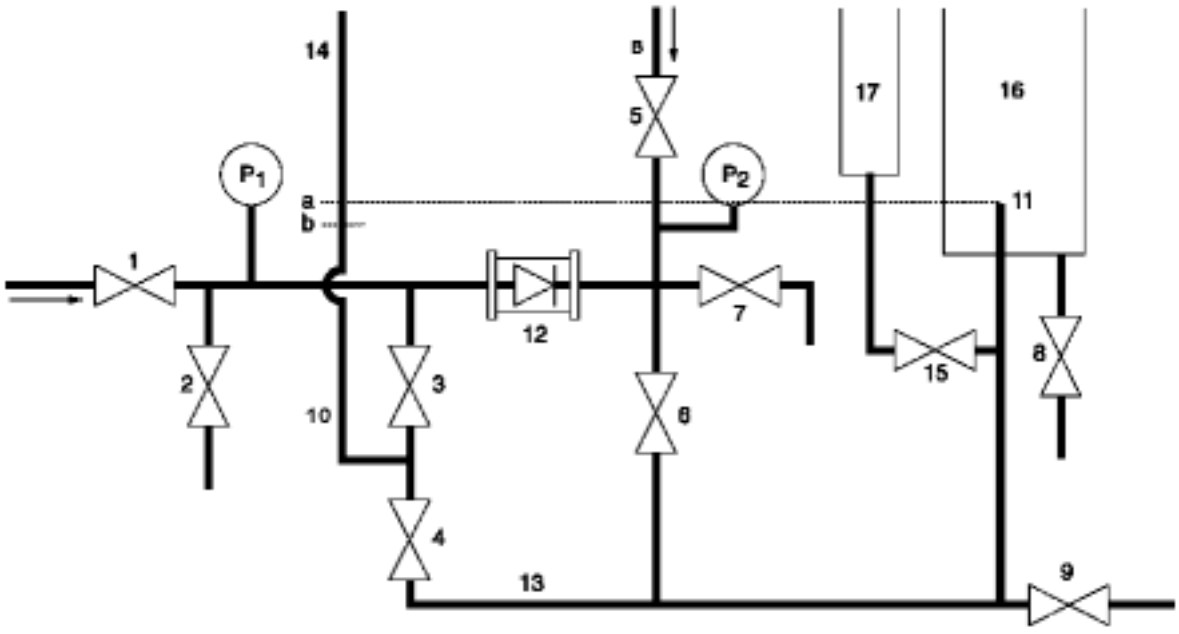

FIG 15