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WRAS TEST & ACCEPTANCE CRITERIA

Issue No: 1
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TEST CODE SHEET

1. TYPE OF TEST(S)

Endurance test.

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 PROCEDURENote Unless otherwise stated the temperature of the test fluid shall be $20 \pm 10^{\circ}\text{C}$.

4.1 Tests applicable to the following:-

PRESSURISED AIR INLET VALVE LA

DN15 to DN50.

Devices for the prevention of contamination by backflow.

(A) **PRESSURISED AIR INLET VALVE LA** (Derived from TC 164 WG4 W1 D58. Clause 11.8)
DN15 to DN50.**TEST METHOD****APPARATUS** The following apparatus is required.

Shut off valves '1', '2' and '4'.

Remote controlled slow closing valve '3'.

Needle valve.

Pressure gauge 'P1', accurate to $\pm 2\%$ of reading.

Water reservoir '5'.

Scale, graduated in mm '6'.

Transparent tube.

PROCEDURE The procedure shall be as follows:-

- (1) Mount the device in the test system in its normal working position. (Reference Figure 83).
- (2) Circulate the hot water at $90^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 60 ± 5 minutes, at flow rate of minimum 0.167 l/sec.; maximum 10% of the nominal flow rate given in Table 83.
- (3) Let the system cool down to ambient temperature.

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- (4) The device shall not be operated for 30 days, but maintained at 3 bar.
- (5) Then supply the device with hot water of $65^{\circ}\text{C} \pm 5^{\circ}\text{C}$, at $2 \text{ bar} \pm 0.5 \text{ bar}$; for 10 ± 1 minutes at a flow rate of minimum 0.167 l/sec., maximum 10% of the value given in Table 83. The device is then subjected to a water pressure of $3 \text{ bar} \pm 0.5 \text{ bar}$ static, at ambient temperature for $4 \text{ hours} \pm 10 \text{ minutes}$.
- (6) This cycle is to be repeated for a period of 30 days.

Table 83

| | | | | | | |
|--------------------------------|------|------|-----|-----|-----|-----|
| Nominal size - DN | 15 | 20 | 25 | 32 | 40 | 50 |
| Minimum flow rate – l/s | 0.45 | 0.80 | 1.4 | 2.2 | 3.5 | 5.4 |

5. ACCEPTANCE CRITERIA

There shall be no leakage from the device during the 60 days total test period.
The device must meet the requirements of tests TCS 2212.18 and 2212.19.

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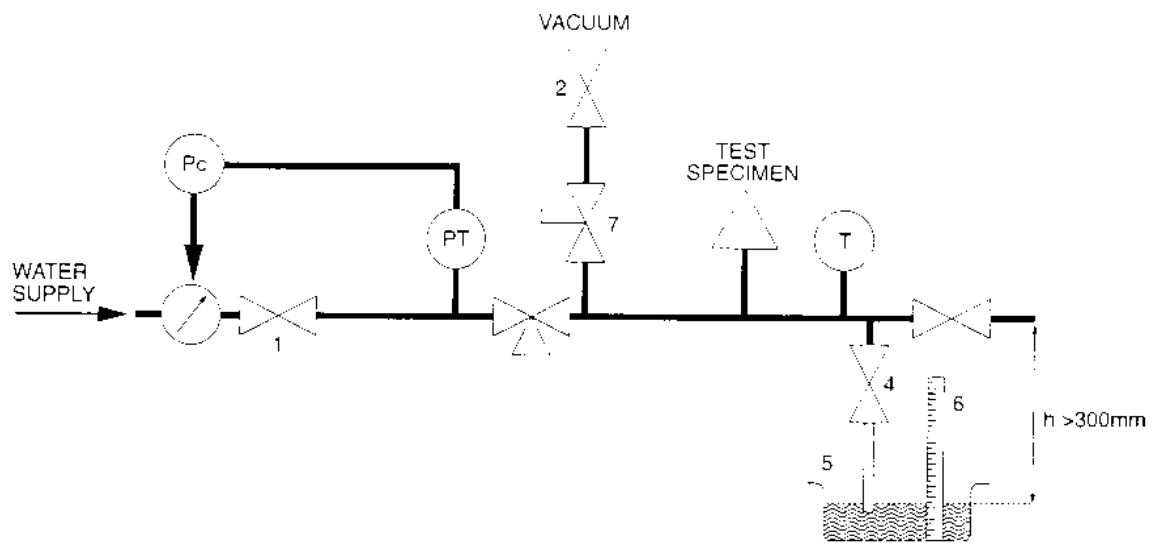


FIG 83

h: distance between the edge of the air inlet opening of the device and the water level.