TEST CODE SHEET

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1. TYPE OF TEST(S)

Relief valve operation.

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

4.1 Tests applicable to the following:-

Note Unless otherwise stated the temperature of the test fluid shall be 20 ± 10°C.

REDUCED PRESSURE ZONE (RPZ) VALVE BA
DN8 to DN250.
Devices for the prevention of contamination by backflow.

(A) REDUCED PRESSURE ZONE (RPZ) VALVE BA (Derived from prEN 12729. Clause 9.6.4 & 9.6.5)
DN8 to DN250.

TEST METHOD

APPARATUS The following apparatus is required.

A supply of water to achieve the test pressure.

Pressure gauges.

PROCEDURE The procedure shall be as follows:-

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

(2) *Low Pressure Test*
Apply upstream of the valve a pressure of 1.75 bar, and record the pressure differential between the upstream and intermediate zone. Reduce the upstream pressure slowly in increments of 0.25 bar and record the differential pressure until the upstream pressure is 0.5 bar. Then reduce the upstream pressure at 0.1 bar increments and record the differential pressure until the upstream pressure is 0 bar.

(3) *High Pressure Test*
Record the pressure difference between the upstream and intermediate zones with an upstream pressure set at 1.75 bar; then reduce the upstream pressure slowly until water is discharged from the relief valve. Note the upstream and intermediate pressures when discharge occurs.

(4) Raise the upstream pressure back to its initial pressure.

(5) Repeat steps (3) and (4) at 3, 6 and 10 bar.

5. ACCEPTANCE CRITERIA

(1) *Low Pressure Test*
The intermediate zone shall be at atmospheric pressure with an upstream pressure > 0.14 bar.

(2) *High Pressure Test*
The pressure difference when the relief valve discharges between the upstream and intermediate zone shall be greater than 0.14 bar for each of the set pressures.

(3) The relief valve shall be leaktight when raised to its initial pressure.

During both tests, the pressure differential between the upstream and intermediate zones shall be greater than 0.14 bar.