TEST CODE SHEET

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1. TYPE OF TEST(S)

Vacuum on secondary circuit.

2. WATER REGULATIONS REQUIREMENTS FOR FITTINGS

Schedule 2

24. No supply pipe or secondary circuit shall be permanently connected to a closed circuit for filling a heating system unless it incorporates a backflow prevention device in accordance with a specification approved by the regulator for the purposes of this Schedule.

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 are applicable to the following fittings:

SINGLE FEED, MAINS WATER SUPPLY PRESSURE, UNVENTED HOT WATER STORAGE SYSTEM

(A) SINGLE FEED, MAINS WATER SUPPLY PRESSURE, UNVENTED HOT WATER STORAGE SYSTEM

TEST METHOD

Carry out the following procedure on the indirect units and packages.

1. Ensure required equipment is within calibration. Record equipment used.
2. Install the apparatus as stated in the manufacturers instruction manual and in accordance with Diagram 1. Connect the apparatus via a stop valve, flow meter and thermocouple (B) to the mains inlet of the apparatus. Fit thermocouple (A) to the outlet or such as where the normal stat is positioned or so that the temperature at the top of the storage vessel can be measured. Install the connection from the hot water outlet, sized in accordance with the manufacturers instruction manual (at no size smaller than the outlet) to drain via a spherical valve.
3. Add 0.5 litres of fluroscene into the primary side of the cylinder.
4. Connect a vacuum pump to the hot outlet and isolate using a spherical valve.
5. Open the stop valve on the water supply to the apparatus under test, ensure the mains pressure supply is greater than the pressure setting of the pressure reducing valve. Check for leaks.
6. Open the spherical valve on the hot water outlet. Bleed all air out of the cylinder.
7. Close spherical valve on hot water outlet and connect to the vacuum pump.
8. Fill the primary side and check for leaks.
9. Isolate the stop valve on the cold inlet.
10. Open the spherical valve on the hot water outlet and release the system pressure.
11. Apply a vacuum of 0.75 (± 0.5) bar to the secondary circuit for a period of 30 (± 5) seconds.

5. ACCEPTANCE CRITERIA

No mixing of the primary and secondary waters shall occur, as shown by the absence of fluroscene in the secondary water.

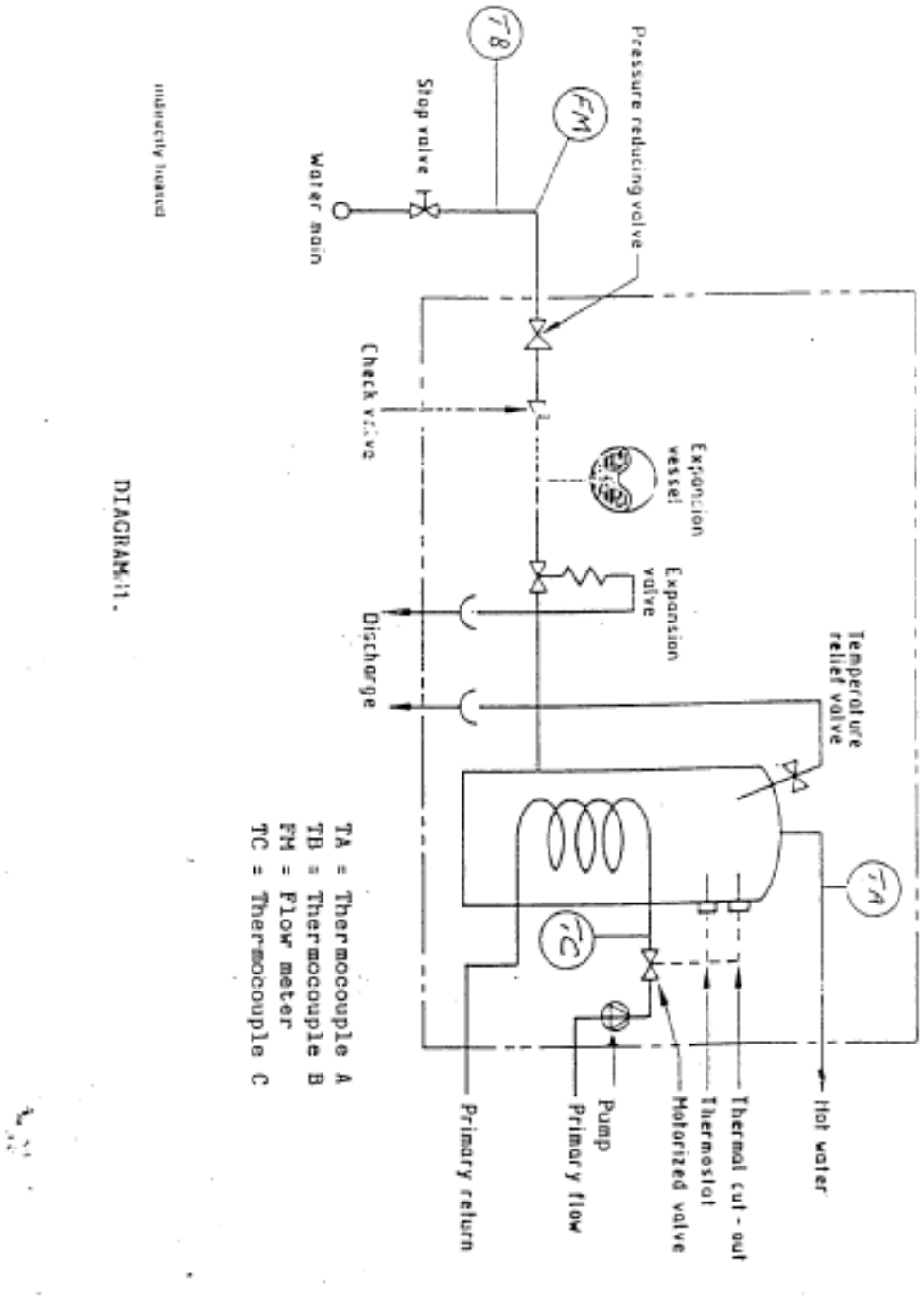
Water main
Stop valve
Pressure reducing valve
Check valve
Expansion vessel
Expansion valve
Discharge
Temperature relief valve
Hot water
Thermal cut - out
Thermostat
Motorized valve
Pump
Primary flow
Primary return
TA = Thermocouple A
TB = Thermocouple B
FM = Flow meter
TC = Thermocouple C

DIAGRAM 11.