TEST CODE SHEET

---

1. TYPE OF TEST(S)

Closure at set outlet pressure.

2. BYELAW REQUIREMENT FOR FITTINGS

There are no specific requirements under the Byelaws for this test.

3. BRITISH STANDARDS OR WATER SPECIFICATION, DEEMED TO SATISFY BYELAW REQUIREMENTS

3.1 Fittings with 'Kitemarks' which are deemed to satisfy the requirementes of byelaws 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 fittings:-

VALVES - PRESSURE LIMITING, DROP TIGHT, ADJUSTABLE AND NON-ADJUSTABLE
VALVES - PRESSURE REDUCING, DROP TIGHT, ADJUSTABLE AND NON-ADJUSTABLE

(A) DROP TIGHT PRESSURE REDUCING / LIMITING VALVES (Derived from BS 6283 : Part 4 : Appendix D)

TEST METHOD

Install the valve in a position similar to that in which it will be used in service. Connect the valve inlet to a water supply which can be controlled in pressure as shown in Figure 1. Measure the pressure close to the inlet and the outlet of the valve.

Open valves 1 and 2 to purge the system of air. Close valve 2 and adjust the water supply until gauge 'A' registers 10 ± 0, -1 bar (or maximum water inlet pressure stipulated by the manufacturer, which ever is the highest).

If the valve is of the adjustable type, set it to give an outlet pressure equal to the lower limit of the outlet pressure range stated by the manufacturer. (See procedure for non-BS fittings).

Observe gauge 'B' for a period of 10 minutes ± 30 seconds.

5. ACCEPTANCE CRITERIA

There shall be no increase in pressure on gauge 'B'.

(B) **DROP TIGHT PRESSURE REDUCING / LIMITING VALVES** (Non BS fittings)

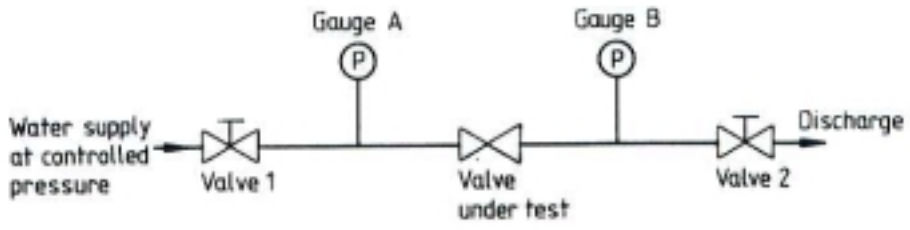
TEST METHOD

Install the fitting in accordance with the manufacturer's recommendations (if any). Connect the inlet to a water supply which can be controlled in pressure as shown in Figure 1. Fit a stop valve meeting the requirements of TCS 1111.1 to the outlet. Measure the pressure close to the inlet, and between the outlet of the fitting and the stop valve. Open the stop valve for 10 ± 1 seconds to purge the system of air. Adjust the inlet pressure to the maximum limit +0, -0.5 bar stated by the manufacturer. If the outlet pressure is adjustable, the fitting shall be adjusted to give an outlet pressure within 0.3 ± 0.1 bar or 5 ± 1% of the maximum outlet pressure. Observe gauge 'B' for a period of 10 minutes ± 30 seconds. Reduce the outlet pressure to within a value of 5 ± 1% of the minimum outlet pressure. Observe gauge 'B' for a period of 10 minutes ± 30 seconds.

5. **ACCEPTANCE CRITERIA**

The fitting shall maintain without variation, either:

(a) the set outlet pressure stated by the manufacturer, or
(b) the outlet pressure to which it was adjusted at the start of the observation period, for a period of 10 minutes ± 30 seconds.



NOTE. Drawing is diagrammatic only.

Figure 1. Drop-tight seating test rig