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WBS TEST & ACCEPTANCE CRITERIA

Issue No: 3
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Sheet 1 of 1

TEST CODE SHEET

1. TYPE OF TEST(S)

Endurance

2. BYELAW REQUIREMENT FOR FITTINGS

Byelaw 52

Every water fitting shall be constructed of materials, the nature, the strength and thickness of which..... will prevent, so far as is reasonably practicable, damage from:

- (a) any external load;
- (b) vibration, stress

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

At present no British Standard or Water Industry specification exists.

4. TEST PROCEDURE

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

4.1 Tests applicable to the following fittings:-

SOLENOID VALVES - ALL TYPES
Metal and Plastics

(A) SOLENOID VALVES (All Types)

TEST METHOD

The fitting shall be installed in a suitable rig and subjected to 200,000 operations whilst being supplied with water at the claimed maximum operating pressure (± 0.5 bar in the range 4 - 30 bar) and at a temperature as follows: -

- i) when designated as a 'cold water fitting' only - ambient temperature $20 \pm 5^\circ\text{C}$.
- ii) when designated as a 'hot water fitting' - the manufacturers claimed operating temperature $\pm 5^\circ\text{C}$, within the range 65°C to 90°C .
- iii) when designated for 'hot and cold water use' two valves shall be tested, one as a cold water fitting and the other as a hot water fitting as detailed in (i) and (ii) above. Both valves to be subjected to 200,000 operations.

5. ACCEPTANCE CRITERIA

The fitting shall fulfil its design function satisfactorily throughout the test and upon completion shall be capable of meeting the acceptance criteria of TCS 1111.1 and TCS 1112.1.