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WBS TEST & ACCEPTANCE CRITERIA
PD.JCS

Issue No: 1
Date of issue: October 1998

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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

Byelaw 87

..... every draw-off shall - (a) be capable of operating effectively at (i) any water pressure to which it is likely to be subject; and (b) be made and designed so that it may be easily closed to shut off the flow of water; and (c) if it incorporates a renewable seal or washer, be made of adapted so that the seal or washer can be readily removed or replaced

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

At present there are no specific British Standards covering this fitting.

4. **TEST PROCEDURE**

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

4.1 Test applicable to the following fittings:-

ASSEMBLIES PROVIDING REMOTE/NON-TOUCH METHODS OF ACTUATING WATER SUPPLY CONTROL DEVICES.

(A) **ASSEMBLIES PROVIDING REMOTE/NON-TOUCH METHODS OF ACTUATING WATER SUPPLY CONTROL DEVICES**

TEST METHOD

Mount the actuating assembly onto an automatic test rig capable of operating the assembly with an adjustable time setting for ON/OFF and dwell periods. (The power source for actuation shall be the same as that stipulated by the manufacturer). Activate the sensor by hand and ensure that the water supply control valve opens. Note the time that the control valve remains open (VO).

(NOTE) If a solenoid valve is used to control the water supply and the coil is an integral part of the valve, then a water supply shall be provided to the valve during the test. If the coil can be removed then the test can commence without the water valve being in place).

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Commence the opening and closing operations as follows:-

- a) Operate the sensor to produce a flow of water.
- b) Release the operating method.
- c) Allow the assembly to remain in this state for a time period of VO + 5 seconds.

This constitutes one cycle. The assembly shall be tested for a total of 200,000 cycles.

5. ACCEPTANCE CRITERIA

- (a) Upon completion of testing the solenoid valve shall satisfy the acceptance criteria of TCS 1111.1 and TCS 1112.1.
(NOTE This applies if the full solenoid assembly has been tested)
- (b) Upon completion of testing, the actuating assembly shall still be capable of operating the solenoid valve ON & OFF.
- (c) The solenoid valve shall meet the criteria of TCS 1211.1