

Australian Standard[®]

Automatic fire detection and alarm systems—Methods of test for actuating devices

Method 14: Resistance to crushing test

1 SCOPE. This Standard sets out a method of testing the resistance of an actuating device to crushing. (See performance requirements in the appropriate device Standard.)

2 PRINCIPLE. The actuating device shall have a specified force applied to it by thumb pressure and be monitored for alarm or fault state or damage.

3 APPARATUS. The following apparatus is required:

- (a) A suitable instrument capable of determining the applied force to an accuracy of ± 1 N.
- (b) Suitable monitoring equipment.

4 PROCEDURE. The actuating device shall be connected to its power supply and monitoring equipment and subjected to the following test:

- (a) Place the actuating device on the instrument (see Figure 1) and subject it to a force of—
 - (i) 70 N applied to the centre of the actuating device; and
 - (ii) 90 N applied across the actuating device.
- (b) Apply the force by the thumb through a rigid disc, 16 mm in diameter and 3 mm thick, with any sharp edges removed.

5 REPORTING OF RESULTS. The following shall be reported:

- (a) Information identifying the actuating device.
- (b) Evidence of damage.
- (c) Whether the actuating device generated a fault signal or entered an alarm state during the tests.
- (d) Reference to this test method.