

Australian Standard<sup>®</sup>

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**Fire sprinkler systems**

**Part 1.7: Components—  
Alarm valves (dry)**

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This Australian Standard was prepared by Committee FP/4, Automatic Sprinkler Installations. It was approved on behalf of the Council of Standards Australia on 15 November 1995 and published on 5 January 1996.

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The following interests are represented on Committee FP/4:

Asset Services—Department of Administrative Services  
Australian Building Codes Board  
Australian Chamber of Commerce and Industry  
Australian Chamber of Manufactures  
Australian Fire Authorities Council  
Australian Fire Protection Association  
Australian Water and Sewerage Authorities  
CSIRO—Division of Building, Construction and Engineering  
Commonwealth Fire Board  
Department of Defence  
Fire Protection Industry Association of Australia  
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New Zealand Fire Equipment Association  
Telstra  
Testing interests  
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This Standard was issued in draft form for comment as DR 95134.

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## PREFACE

This Australian Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FP/4 on Automatic Sprinkler Installations to be Part 1.7 of AS 4118.

This Standard is the result of a consensus among representatives on the joint committee to produce it as an Australian Standard.

The revisions to AS 2118 include Standards Australia's requirements to keep product and installation Standards separate. When complete the series will comprise:

AS

- 2118 Automatic fire sprinkler systems
  - Part 1: Standard
  - Part 2: Wall wetting sprinklers (Drenchers)
  - Part 3: Deluge
  - Part 4: Residential
  - Part 5: Domestic
  - Part 6: Combined sprinkler and hydrant
  - Part 9: Piping support and installation
  - Part 10: Approval documentation
- 4118 Fire sprinkler systems
  - Part 1.1: Components—Sprinklers and sprayers
  - Part 1.2: Components—Alarm valves (wet)
  - Part 1.3: Components—Water motor alarms
  - Part 1.4: Components—Valve monitors
  - Part 1.5: Components—Deluge and pre-action valves
  - Part 1.6: Components—Stop valves and back return valves
  - Part 1.7: Components—Alarm valves (dry)
  - Part 1.8: Components—Pressure reducing valves
  - Part 1.9: Components—Accelerators and exhausters
  - Part 2.1: Piping—General

ISO 6182 has been drawn on for the development of this Standard and the assistance received is hereby acknowledged.

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## STANDARDS AUSTRALIA

**Australian Standard**  
**Fire sprinkler systems**

Part 1.7: Components—Alarm valves (dry)

SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE** This Standard specifies requirements for the construction and performance of alarm valves (dry) for fire sprinkler systems.

**1.2 NEW DESIGNS AND INNOVATIONS** Any alternative materials, designs, methods of assembly and procedures that do not comply with specific requirements of this Standard, or are not mentioned in it but that give equivalent results to those specified, are not necessarily prohibited. Advice on such matters can be sought from Standards Australia, but the specified approval remains the prerogative of the regulatory authority.

**1.3 DEEMED TO SATISFY** Any alarm valve (dry) that has been listed and approved by an internationally recognized test and approval body such as—

- (a) Factory Mutual (FM);
- (b) Underwriters Laboratories (UL);
- (c) Loss Prevention Council (LPC);

or has been listed by Scientific Services Laboratory (SSL) in—

SSL Register of Accredited Products  
Fire Protection Equipment

shall be deemed to satisfy the requirements of this Standard.

**1.4 REFERENCED DOCUMENTS** The following documents are referred to in this Standard:

## AS

- |         |                                                              |
|---------|--------------------------------------------------------------|
| 1628    | Water supply —Copper alloy gate, globe and non-return valves |
| 1683    | Methods of test for elastomers                               |
| 1683.11 | Part 11: Tension testing of vulcanized rubber                |
| 2118    | Automatic fire sprinkler systems                             |
| 2118.1  | Part 1: Standard                                             |
| 2484    | Fire—Glossary of Terms                                       |
| 2484.1  | Fire tests                                                   |
| 2484.2  | Fire protection and firefighting equipment                   |
| 3500    | National Plumbing and Drainage Code                          |
| 3500.0  | Glossary of Terms                                            |

## ISO

- |       |                                               |
|-------|-----------------------------------------------|
| 898   | Mechanical properties of fasteners            |
| 898.1 | Part 1: Bolts, screws and studs               |
| 898.2 | Part 2: Nuts with specified proof load values |