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**Fire protection — Automatic sprinkler  
systems —**

**Part 4:  
Requirements and test methods for  
quick opening devices**

*Protection contre l'incendie — Systèmes d'extinction automatique du  
type sprinkler —*

*Partie 4: Exigences et méthodes d'essai des dispositifs à ouverture rapide*



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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 21, *Equipment for fire protection and fire fighting*, Subcommittee SC 5, *Fixed firefighting systems using water*.

This second edition cancels and replaces the first edition (ISO 6182-4:1993), which has been technically revised.

A list of all the parts in the ISO 6182 series, can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Fire protection — Automatic sprinkler systems —

## Part 4:

## Requirements and test methods for quick opening devices

### 1 Scope

This document specifies the performance and testing requirements for accelerators used with dry pipe valves in fire protection systems to hasten the operation of the valves when one or more sprinklers operate.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 49, *Malleable cast iron fittings threaded to ISO 7-1*

ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread*

ISO 898-2, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes — Coarse thread and fine pitch thread*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

#### 3.1

##### **accelerator**

quick-opening device which hastens the operation of a dry pipe valve using mechanical means other than by reducing installation pipework pressure

Note 1 to entry: For the purposes of this document, the term accelerator refers to an accelerator and any (internal or external) *antiflooding device* (3.2).

#### 3.2

##### **antiflooding device**

device intended to prohibit excessive water or other foreign matter from entering any relevant part or parts of the accelerator where this might prevent subsequent operation

#### 3.3

##### **corrosion-resistant material**

metallic material of bronze, brass, copper-nickel alloys metal, austenitic stainless steel, or equivalent, or plastic material conforming with the requirements of this document