International Standard

ISO 6182-2

Fourth edition
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Fire protection — Automatic sprinkler systems —

Part 2: Requirements and test methods for sprinkler system alarm valves, check valves, water motor alarms, retard devices and accelerators

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

Partie 2: Exigences et méthodes d'essai des soupapes d'alarme hydrauliques, des limiteurs de surpression et des dispositifs d'alarme à moteur hydraulique

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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 document 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).

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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.

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 fourth edition cancels and replaces the third edition (ISO 6182-2:2012), as well as ISO 6182-3:2012, ISO 6182-4:2019, ISO 6182-5:2012, ISO 6182-6:2020 and ISO 6182-8:2019.

The main changes are as follows:

— Consolidation of ISO 6182-2:2012, ISO 6182-3:2012, ISO 6182-4:2019, ISO 6182-5:2012, ISO 6182-6:2020, and ISO 6182-8:2019, into this document.

Inclusion of requirements for additional preaction valve variations.

A list of all 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.

Fire protection — Automatic sprinkler systems —

Part 2: Requirements and test methods for sprinkler system alarm valves, check valves, water motor alarms, retard devices and accelerators

1 Scope

This document specifies performance, requirements, methods of test and marking requirements for the following equipment for use in automatic fire protection systems:

— wet alarm valves;

— retard devices;

— water motor alarms;

— dry pipe valves;

— accelerators;

— deluge valves;

— preaction valves;

— check valves.

Performance and test requirements for trim valves for alarm valves are not covered by this document.

The requirements for pressure reducing valves and fire pump relief valves are provided by ISO 6182-16 and ISO 6182-17.

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 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*

3 Terms and definitions

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

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

— ISO Online browsing platform: available at https://www.iso.org/obp