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Fire protection — Automatic sprinkler systems —

Part 6: Requirements and test methods for check valves

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

Partie 6: Exigences et méthodes d'essai des postes de contrôle

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

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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).

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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.

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 6182-6:2006), 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.

Introduction

This document is part of the ISO 6182 series of standards covering requirements and test methods for check valves in the main water way to a sprinkler installation. Check valves are used to prevent the backflow of water and may be installed in several locations within a sprinkler system, e.g. if the sprinkler system is fed from multiple pumps or if sprinkler installations are provided with multiple flow switches for better fire localization.

Fire protection — Automatic sprinkler systems —

Part 6: Requirements and test methods for check valves

1 Scope

This document specifies performance, requirements, test methods and marking requirements, for check valves used to supply water in automatic fire protection systems.

It is not applicable to trim valves.

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*

ISO 898-2, *Mechanical properties of fasteners — Part 2: Nuts with specified proof load values — Coarse 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:

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

— IEC Electropedia: available at http://www.electropedia.org/

3.1
check valve
valve that allows fluid flow in one direction only

3.2
clapper
type of sealing element

Note 1 to entry: See also *sealing assembly* (3.7).

3.3
corrosion-resistant material
bronze, brass, Monel®[1)] metal, austenitic stainless steel, or equivalent metallic or plastic material conforming with the requirements of this document

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