#### ISO/FDIS 6182-2:2024(en)

ISO-<u>/\_TC-\_21/SC-05\_5</u> Secretariat:-\_ANSI

Date: 2025-<mark>02-14xx</mark>

### 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 —

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

#### <u>SO/FDIS 6182-</u>

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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 <a href="http://www.iso.org/directives">www.iso.org/directives</a>).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <a href="http://www.iso.org/patents.">www.iso.org/patents.</a>. ISO shall not be held responsible for identifying any or all such patent rights.

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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 <u>www.iso.org/iso/foreword.html</u>.

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 (<u>ISO 6182-2:2012</u>), as well as <u>ISO-6182-3:2012</u>, <u>ISO 6182-4:2019</u>, <u>ISO 6182-5:2012</u>, <u>ISO 6182-6:2020</u> and <u>ISO 6182-8:2019</u>.

The main changes are as follows:

— Consolidation of JSO 6182-2:2012, JSO 6182-3:2012, JSO 6182-4:2019, JSO 6182-5:2012, JSO 6182-4	~	Formatted
6;2020, and JSO 6182-8;2019, into 6182-2 <u>this document</u> .		Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not
Inclusion of requirements for additional preaction valve variations.		at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
A list of all parts in the ISO 6182 series can be found on the ISO website.		Formatted: Adjust space between Latin and Asian text,

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FINAL DRAFT International Standard ISO/FDIS 6182-2:2025(e	en)
Fire protection— Automatic sprinkler systems-—	
Part	-2: Formatted: Main Title 2
Requirements and test methods for sprinkler system alarm valu check valves, water motor alarms, retard devices and accelerators	 ves,
L Scope	Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
This document specifies performance, requirements, methods of test and marking requirements fo ollowing equipment for use in automatic fire protection systems $\frac{1}{2}$ .	
– <u>— Wetwet</u> alarm valves <u>:</u>	Formatted: Adjust space between Latin and Asian text, Adjust space between Latin and any horn. Tob stars: No.
– <u>Retardretard</u> devices <u>:</u>	Adjust space between Asian text and numbers, Tab stops: No at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
<ul> <li><u>Waterwater</u> motor alarms;</li> </ul>	
– <u>Drydry</u> pipe valves <u>:</u>	
- Accelerators	
<u>– Delugeaccelerators:</u> (https://standards.itel	h. <mark>ai</mark> )
- <u>deluge</u> valves: <b>Document Previev</b>	Formatted: Adjust space between Latin and Asian text,
<ul> <li><u>Preaction preaction</u> valves:</li> </ul>	Adjust space between Asian text and numbers, Tab stops: No at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
- <u>Check</u> check valves.	
<u>Check check valves</u> Performance and test requirements for trim valves for alarm valves are not covered by this document.	Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
enominance and test requirements for thin varies for alarm varies are not covered by this document.	Formatted: Default Paragraph Font
he requirements for pressure reducing valves and fire pump relief valves are provided by ISO-6182-10	
50-,6182-17.	Formatted: Default Paragraph Font
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eferenced in <u>all of their content constitutes requirements of</u> this document and are indispensable for	
pplication. For dated references, only the edition cited applies. For undated references, the latest edition of the references of the latest edition of the references of the	ion df
he referenced document (including any amendments) applies. <del>:std&gt;ISO 898-</del> ISO 898-1, Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: . crews and studs with specified property classes — Coarse thread and fine pitch thread< <del>/std&gt;</del>	<b>Formatted:</b> Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: No at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
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3 Terms and definitions	Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
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 <u>https://www.iso.org/obp</u> https://www.iso.org/obp	Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not
— — IEC Electropedia: available at <u>https://www.electropedia.org/</u> https://www.electropedia.org/	at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
3.1 3.1 accelerator	Formatted: TermNum2, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
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.	Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not
Note- <u>2-</u> to entry:- <u>See also</u> <del>3.3</del> .3.3.	at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
<u>3.2</u> <del>3.2</del>	Formatted: TermNum2, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
alarm device mechanical or electrical device which sounds an alarm upon operation of the valve	Asian text, Adjust space between Asian text and numbers
<ul> <li>3.3 3.3</li> <li>antiflooding device</li> <li>device intended to prohibit excessive water or other foreign matter from entering any relevant part or parts of the accelerator where this can potentially prevent subsequent operation.</li> <li>3.4 3.4</li> </ul>	<b>i</b> )
anti- <u>reseating</u> latch component that prevents the sealing assembly from returning to its closed position after operation	<b>Commented [eXtyles2]:</b> The term "anti-reseat latch" has not been used anywhere in this document
<b>3.5</b> <u>ISO/FDIS 6182-2</u>	
	94bc4f2a05/iso-fdis-6182-2
3.6 3.7 check valve valve that permits flow into a pipe system and that prevents reverse flow	
3.7 3.8 clapper type of sealing assembly which includes rotational movement	
Note-1-to-entry:-See also 3.29,3.28.	Formatted: Adjust space between Latin and Asian text,
<u>3.8_</u> <del>3.9</del>	Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
clapper-type valve type of valve utilizing a clapper as the main sealing element which prevents flow from the system to the supply side of the valve	Formatted: TermNum2, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
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<u>3.9_3.10</u>		
compensator		
external or internal device such as an auxiliary valve that minimizes false alarms caused by a small increas of service pressure	9	
3.10 <del>3.11</del>		
corrosion-resistant material		
bronze, brass or nickel-copper alloys such as UNS N04400, austenitic stainless steel, or equivalent metallic o plastic material conforming with the requirements of this document		
3.11 <del>3.12</del>		
deluge system		Commented [eXtyles3]: The term "deluge system" is used only
automatic fire protection system using a deluge valve which is operated by an auxiliary means to admit wate into a system of open sprinklers or nozzles.		in terms and definitions section
3.12 3.13 deluge valve		
<b>deluge valve</b> automatic water-supply control valve intended to be operated by an auxiliary means to admit water into a		
system of open piping for a deluge system, or system of closed piping for a preaction system		
Note-1-to-entry:-The auxiliary means of operating a deluge valve can be mechanical, electrical, hydraulic, pneumatic	,	Formatted: Adjust space between Latin and Asian text,
thermal, manual or a combination of these.		Adjust space between Asian text and numbers, Tab stops: Not at $0.7 \text{ cm} + 1.4 \text{ cm} + 2.1 \text{ cm} + 2.8 \text{ cm} + 3.5 \text{ cm} + 4.2$
3.12.1 3.13.1 iTeh Standards	•	cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
hydraulically operated deluge valve	_	Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
deluge valve that is maintained in the set position by service hydraulic pressure acting against a diaphragm of	2	Commented [eXtyles4]: The term "hydraulically operated
piston that holds the sealing assembly closed.		deluge valve" has not been used anywhere in this document
Note-1-to-entry:-A change in pressure against the diaphragm or piston allows the valve to open. The pressure is change		Formatted: Adjust space between Latin and Asian text,
by operation of a manual control, an electrical device such as solenoid valve, or hydraulically, thermally, or pneumatically operated device.	/	Adjust space between Asian text and numbers, Tab stops: Not at $0.7 \text{ cm} + 1.4 \text{ cm} + 2.1 \text{ cm} + 2.8 \text{ cm} + 3.5 \text{ cm} + 4.2$
operated device.		cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
<u>3.12.2</u> <u>3.13.2</u> ISO/FDIS 6182-2	•	Formatted: TermNum3, Adjust space between Latin and
pressure-loss operated deluge valve Avalve in which the valve is released from the set position by reducing the pressure acting against an auxiliar,	- 10	Asian text, Adjust space between Asian text and numbers
diaphragm or piston-	eas	
<u>3.12.3 <del>3.13.3</del> -</u>		
supply pressure operated deluge valve		
a valve that is maintained in the set position by a spring or other means and is hydraulically operated by the	ġ	Formatted: Adjust space between Latin and Asian text,
application of service pressure to an auxiliary diaphragm or piston		Adjust space between Asian text and numbers, Tab stops: Not at $0.7 \text{ cm} + 1.4 \text{ cm} + 2.1 \text{ cm} + 2.8 \text{ cm} + 3.5 \text{ cm} + 4.2$
<u>3.13 <del>3.1</del>4</u>	/	cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
differential		<b>Formatted:</b> TermNum2, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
ratio of service pressure to system air pressure (expressed as gauge pressure) at the trip point		Formatted: Adjust space between Latin and Asian text,
Note_1-to_entry:-See also 3.36.3.35.		Adjust space between Asian text and numbers, Tab stops: Not at $0.7 \text{ cm} + 1.4 \text{ cm} + 2.1 \text{ cm} + 2.8 \text{ cm} + 3.5 \text{ cm} + 4.2$
		cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
3.14_3.15 differential-type valve	• /	Formatted: Font: 10 pt
type of valve in which air pressure in the system acts directly or indirectly or both on the sealing assembly t	, /	Formatted: Font: 10 pt
maintain it in the closed position		Formatted: Font: 10 pt
Note_1-to_entry:-The air seat of the sealing assembly is of equal or larger diameter than the diameter of the water sea	t•/ /	Formatted: FooterCentered, Left, Space Before: 0 pt, Tab stops: Not at 17.2 cm
of the sealing assembly, with the two separated by an intermediate chamber maintained at atmospheric pressure.		Formatted: Font: 11 pt
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