

# **Sikkerheds- og reguleringsudstyr til gasbrændere og gasforbrugende apparater – Særlige krav – Del 11: Automatiske og semiautomatiske spærreventiler til driftstryk over 500 kPa op til og med 6300 kPa**

Safety and control devices for gas burners and gas-burning appliances – Particular requirements – Part 11: Automatic and semi-automatic shut-off valves for operating pressure of above 500 kPa up to and including 6300 kPa

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## **Safety and control devices for gas burners and gas-burning appliances — Particular requirements —**

### **Part 11: Automatic and semi-automatic shut- off valves for operating pressure of above 500 kPa up to and including 6 300 kPa**

*Dispositifs de commande et de sécurité pour brûleurs à gaz et  
appareils à gaz — Exigences particulières —*

*Partie 11: Robinets automatiques et semi-automatiques de  
sectionnement pour une pression de fonctionnement supérieure à  
500 kPa et jusqu'à 6 300 kPa inclus*



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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](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 161, *Controls and protective devices for gaseous and liquid fuels*.

A list of all parts in the [ISO 23551 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).

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## Introduction

This document is designed to be used in combination with [ISO 23550](#). Together, they establish the full requirements as they apply to the product covered by this document.

Where needed, this document adapts [ISO 23550](#) by stating in the corresponding clause:

- “with the following modification”;
- “with the following addition”;
- “is replaced by the following”; or
- “is not applicable”.

In order to identify specific requirements that are particular to this document, that are not already covered by [ISO 23550](#), this document can contain clauses or subclauses that are additional to the structure of [ISO 23550](#). These subclauses are indicated by the introductory sentence: “Subclause (or Annex) specific to this document.”

To ensure global relevance of this document, the differing requirements resulting from practical experience and installation practices in various regions of the world have been taken into account. The variations in basic infrastructure associated with gas controls and appliances have also been recognized, some of which are addressed in [Annexes A, B, C and D](#). This document intends to provide a basic framework of requirements that recognize these differences.

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# Safety and control devices for gas burners and gas-burning appliances — Particular requirements —

## Part 11: Automatic and semi-automatic shut-off valves for operating pressure of above 500 kPa up to and including 6 300 kPa

### 1 Scope

This document specifies safety, constructional and performance requirements and testing of automatic, semi-automatic shut-off valves, and general purpose valves for gas burners, gas appliances and appliances of similar use excluding use in fuel gas infrastructures (transportation and distribution systems).

This document applies to controls for use at maximum operating pressures above 500 kPa up to and including 6 300 kPa with sizes up to DN 250 for use on burners or in appliances using fuel gases, such as natural gas, manufactured gas or liquefied petroleum gas (LPG).

This document applies to:

- valves being mounted in gas installations;
- valves directly or indirectly actuated, electrically or by mechanical means;
- valves actuated by hydraulic or pneumatic means, including the pilot valves for these fluids if actuated electrically and including release valves, but not to any external electrical devices for switching the actuating energy;
- valves where the flow rate is controlled by external electrical signals, either in discrete steps or proportional to the applied signal and valves fitted with closed position indicator switches;
- valves to be used in appliances, but not in gas transfer systems outside appliances.

This document covers type testing only.

This document does not apply to valves covered under the scope of [ISO 23551-1](#) or the [ISO 23555 series](#).

### 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 7005-1](#), *Pipe flanges — Part 1: Steel flanges for industrial and general service piping systems*

[ISO 7005-2](#), *Metallic flanges — Part 2: Cast iron flanges*

[ISO 7005-3](#), *Pipe flanges — Part 3: Copper alloy and composite flanges*

[ISO 9692-1](#), *Welding and allied processes — Types of joint preparation — Part 1: Manual metal arc welding, gas-shielded metal arc welding, gas welding, TIG welding and beam welding of steels*

[ISO/IEC 17025](#), *General requirements for the competence of testing and calibration laboratories*

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[ISO 23550:2018](#), *Safety and control devices for gas and/or oil burners and appliances — General requirements*

[ISO 23551-1:2024](#), *Safety and control devices for gas burners and gas-burning appliances — Part 1: Automatic and semi-automatic shut-off valves*

[IEC 60730-1:2022](#), *Automatic electrical controls— Part 1: General requirements*

[IEC 61058-1](#), *Switch for appliances — Part 1: General requirements*

[IEC 60529](#), *Degrees of Protection Provided by Enclosures (IP Code)*