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Safety and control devices for gas and/or oil burners and appliances — General requirements

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



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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 on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 161, *Controls and protective devices for gas and/or oil*.

This third edition cancels and replaces the second edition (ISO 23550:2011), which has been technically revised. The main changes compared to the previous edition are as follows:

- a new structure has been introduced with a clear separation between general statements, requirements and test;
- this document has been updated and aligned with the relevant parts of IEC 60730-1:2013;
- the Scope now specifies controls for use at maximum operating pressures up to and including 500 kPa;
- the Introduction and [Clauses 2](#) and [3](#) have been updated;
- the structure of [Clauses 4](#) to [10](#) have been modified;
- in [Formula \(2\)](#), the air flow rate at standard conditions has been corrected;
- [Annexes D](#) to [H](#) have been created;
- the Bibliography has been updated.

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Introduction

This document provides general requirements for controls and safety devices for gas burners and gas burning appliances, and is intended to be used in conjunction with the ISO 23551, ISO 23552 and the ISO 23553 series for specific types of controls, or for controls for specific applications.

This document can also be applied, so far as reasonable, to controls not mentioned in a specific standard and to controls designed on new principles, in which case additional requirements can be necessary.

Where no specific International Standard for a control exists, the control can be tested according to this document and further tests which take into account the intended use.

Controls and safety devices for gas burners and gas burning appliances using fuel need to withstand the type of gas which is specified. Other ISO Technical Committees, e.g. ISO/TC 28, *Petroleum products and lubricants* and ISO/TC 193, *Natural gas*, deal with the testing and properties of fuel gases.

Note that, due to the differing properties of fuel depending on its source/region of origin, certain differences in regulations exist at present in different regions, some of which are presented in [Annexes E, G and H](#). This document intends to provide a basic framework of requirements until these differences can be harmonized.