BS ISO 23551-10:2016

BSI Standards Publication

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

Part 10: Vent valves

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National foreword

This British Standard is the UK implementation of ISO 23551-10:2016.

The UK participation in its preparation was entrusted to Technical Committee GSE/22, Safety and control devices for gas and oil burners and gas burning appliances.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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

Part 10: Vent valves

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

Partie 10: Robinets d'évent

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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 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.

The committee responsible for this document is ISO/TC 161, *Control and protective devices for gas and/or oil burners and appliances*.

A list of all parts in the ISO 23551 series, published under the general title *Safety and control devices for gas burners and gas-burning appliances — Particular requirements*, can be found on the ISO website.

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Introduction

This part of ISO 23551 is designed to be used in combination with ISO 23550. This part of ISO 23551 together with ISO 23550 establishes the full requirements as they apply to the product covered by this part of ISO 23551. This part of ISO 23551 adapts ISO 23550, where needed, by stating "with the following modification," "with the following addition," "is replaced by the following" or "is not applicable," in the corresponding clause. In order to identify specific requirements that are particular to this part of ISO 23551 that are not already covered by ISO 23550, this part of ISO 23551 may contain clauses or subclauses that are additional to the structure of ISO 23550. These clauses are numbered starting from 101 or, in the case of an Annex, are designated AA, BB, CC, etc.

In an attempt to develop a full International Standard, it has been necessary to take into consideration the differing requirements resulting from practical experience and installation practices in various regions of the world and to recognize the variation in basic infrastructure associated with gas and/or oil controls and appliances, some of which are addressed in Annexes E, F and G. This part of ISO 23551 intends to provide a basic framework of requirements that recognize these differences.

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INTERNATIONAL STANDARD ISO 23551-10:2016(E)

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

Part 10: Vent valves

1 Scope

This part of ISO 23551 specifies the safety, design, construction and performance requirements and testing for automatic vent valves (hereafter referred to as "valves") for use with gas burners, gas appliances burning one or more gaseous fuels.

This part of ISO 23551 is applicable to valves with declared maximum inlet pressures up to and including 500 kPa (5 bar) of nominal connection sizes up to and including DN 100 (4").

This part of ISO 23551 is applicable to

— normally open valves,

— electrically operated valves and to valves actuated by fluids where the control valves for these fluids are actuated electrically, but not to any external devices for switching the control signal or actuating energy, and

— valves fitted with open position indicator switches.

This part of ISO 23551 is not applicable to

— valves for burners and appliances using renewables and/or waste gases (i.e. gases having corrosive characteristics),

In case valves are in contact with renewables and/or waste gases, it is recommend to use this part of ISO 23551 only if explicit information is provided and relevant test methods and requirements are specified.

— valves for appliances intended to be installed in the open air and exposed to the outdoor environment,

— valves that are connected directly to mains pipe-work or to a container that maintains a standard distribution pressure, and

— valves suitable with oil.

This part of ISO 23551 is applicable to type testing only.

NOTE Provisions for final product inspection and testing by the manufacturer are not specified.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 23550:2011, *Safety and control devices for gas burners and gas-burning appliances — General requirements*

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