INTERNATIONAL STANDARD

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

Part 2: Pressure regulators

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

Partie 2: Régulateurs de pression

Reference number
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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 23551-2 was prepared by Technical Committee ISO/TC 161, *Control and protective devices for gas and oil burners and gas and oil burning appliances*.

ISO 23551 consists of the following parts, under the general title *Safety and control devices for gas burners and gas-burning appliances — Particular requirements*:

— *Part 1: Automatic valves*

— *Part 2: Pressure regulators*

— *Part 3: Gas/air ratio controls, pneumatic type*

— *Part 4: Valve-proving systems for automatic shut-off valves*

Introduction

This part of ISO 23551 is designed to be used in conjunction with ISO 23550:2004.

This part of ISO 23551 either references existing requirements of ISO 23550:2004 or indicates that there has been an "addition", "modification" or "replacement" in the cited requirement of ISO 23550:2004.

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

Part 2: Pressure regulators

1 Scope

This part of ISO 23551 specifies safety, constructional and performance requirements for pressure regulators intended for use with gas burners and gas-burning appliances. It also describes the test procedures for checking compliance with these requirements and provides information necessary for the purchaser and user.

This part of ISO 23551 applies to pressure regulators for gas burners and gas-burning appliances of nominal connection size up to and including DN 250 that can be used and tested independently of these appliances. These regulators are suitable for fuel gases, such as natural gas, manufactured gas or liquefied petroleum gas (LPG) at inlet pressures up to and including 50 kPa.

This part of ISO 23551 covers type testing only.

This part of ISO 23551 does not cover

a) regulators connected directly to the mains pipe work or to a container that maintains a standard distribution pressure;

b) regulators installed outdoors and exposed to the environment;

c) regulators which use electrical auxiliary energy.

2 Normative references

The following referenced documents are indispensable for the application 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 23550:2004, *Safety and control devices for gas burners and gas-burning appliances — General requirements*

3 Terms, definitions and symbols

For the purpose of this document, the terms and definitions given in ISO 23550:2004 and the following apply.

3.1 Regulators

3.1.1
pressure regulator
device that maintains the outlet pressure constant within given limits, independently of the variations in inlet pressure and/or flow rate