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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Safety and control devices for gas burners and gas-burning
appliances - Particular requirements - Mechanical thermostats**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the redrafting law to amend and adopt ISO 23551-9.2015 "Safety and Control Devices for Gas Burners and Burning Appliances"

Special Requirements Part 9.Mechanical Temperature Control Device".

Compared with ISO 23551-9.2015, this standard has many structural adjustments.

Appendix A lists this standard and ISO 23551-9.

The.2015 chapter number comparison list.

Compared with ISO 23551-9.2015, this standard has technical differences. The terms involved in these differences have been

The vertical single line (|) in the white position is marked, and a list of the corresponding technical differences and their reasons is given in Appendix B.

This standard is consistent with GB 16914-2012 "Safety Technical Conditions for Gas Burning Appliances". The support of this standard is given in Appendix C.

Support the clause correspondence table of GB 16914-2012 basic requirements.

This standard also made the following editorial changes.

---Modified the standard name;

---The informative appendix A and appendix B of ISO 23551-9.2015 and references are deleted.

This standard was proposed and managed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China.

Drafting organizations of this standard. China Municipal Engineering North China Design and Research Institute Co., Ltd., Guangzhou Saistar Machinery Equipment Co., Ltd.,

Cite Gas Control System Manufacturing (Suzhou) Co., Ltd., Foshan Yangqing Trading Co.,

Ltd., Wuhu Midea Kitchen and Bathroom Appliance Manufacturing Co., Ltd.,
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Development Zone Haier Water Heater Co., Ltd., Io Smith (China) Water Heater
Co., Ltd., Shanghai Mengdi Industrial Automatic Control System Co., Ltd., National Gas
Appliance Quality Supervision and Inspection Center.

1 Scope

This standard specifies mechanical temperature control devices for gas burners and combustion appliances that use urban gas specified in GB/T 13611

(Hereinafter referred to as "thermostat") classification, structure and materials, requirements, test methods, inspection rules, signs and instructions for use, packaging, transportation and

Store.

This standard is applicable to gas stoves, instant water heaters, volumetric water heaters, hot plate stoves, fryer, heaters and ovens, etc., with the maximum inlet pressure

A thermostat that controls the flow of gas in a gas appliance with a force of not more than 10kPa.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 191 Packaging, Storage and Transportation Graphic Mark (GB/T 191-2008, ISO 780.1997, MOD)

GB/T 2828.1 Sampling inspection procedure by attributes Part 1. Batch inspection sampling plan retrieved by acceptance quality limit (AQL)

(GB/T 2828.1-2012, ISO 2859-1.1999, IDT)

GB/T 13611 Classification and basic characteristics of urban gas

GB/T 30597-2014 General requirements for safety and control devices for gas burners and burning appliances (ISO 23550.2011,

MOD)

3 Terms and definitions

The following terms and definitions defined in GB/T 30597-2014 apply to this document.

3.1

Mechanical thermostat

No other auxiliary energy is needed, and the gas flow is directly or indirectly controlled according to the temperature sensed by the temperature sensor to maintain the set temperature.

Device.

3.2

Adjustable thermostat

A thermostat that can set the temperature arbitrarily between the minimum and maximum temperature.

3.3

Fixed temperature thermostat fixed setting thermostat

A thermostat whose set temperature is not adjustable.

3.4

Snap-acting thermostat

A thermostat with only two flow levels (ie "maximum flow-off", "maximum flow-maintain flow" or "maintain flow-off").