

ICS 91.140
CCS P45



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

GB 29550-2013

General safety technique conditions for gas in civil building

民用建筑燃气安全技术条件

Issued on: July 19, 2013

Implemented on: May 1, 2014

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

1	Scope
2	Normative references
3	Terms and Definitions
4	Town gas
4.1	Quality, characteristics and categories City Gas quality
4.2	Supply pressure Appliance supply pressure fluctuation before
5.2	Equipment
6	Reference
6.1	Security devices
6.2	Appliance Adaptability
6.2.1	Adopting limit gas appliance and gas (
6.3	Appliance Rated pressure
6.4	Materials and Structure
6.5	Specification (sample)
6.6	Appliance with water and electricity
7	Exhaust gas appliance technical conditions
7.1	Open burning appliances
7.2	Semi-closed gas appliance
7.3	Sealed gas appliance
8.1	Alarm
8.2	Emergency shut-off valve
	Appendix A

Foreword

6.1,6.2.1,6.3.1,

6.3.3 this standard is mandatory, the rest are recommended. This standard was drafted in accordance with GB/T 1.1-2009 given rules. The standard proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. This standard is under the jurisdiction of the Ministry of Housing and Urban city gas standard technical focal point. This standard was drafted. North China Municipal Engineering Design Institute, Taiyuan Coal Gasification (Group) Co., Ltd., Guangdong ten thousand Le Gas Co., Ltd, Guangdong million and the new Electric Co., Ltd., AO Smith (China) Water Heater Co.,

Qingdao Economic and Technological Zone Haier Water Heater Co., Sakura (China) Co., Ltd., Beijing Fishman Heating Technology Co., Ltd., the US group Ltd., Ningbo Anbang Industry Co., Ltd, Schindler Technology Group Company Limited. The main drafters of this standard. Gao Yong, Xia Chao, Shao Yan, Zhong Song, Liu Yongxing, Zheng Tao, Huang Jin, Ji Yong Fei, Xu Min Feng, Ye Baohua, Wu Binjiang, canal red, Yang Xiaofeng. Civil Gas Safety requirements

1 Scope

GB 29550-2013 is the Chinese national standard on general safety technique conditions for gas in civil building, in the field of construction materials and building. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 19 July 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2014. Classification: ICS 91.140, CCS P45. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the civil construction of urban gas, gas pipelines and equipment, combustion appliances, exhaust gas appliance technical conditions, alarms and emergency General technical requirements for off valves. This standard applies to civil pressure not more than 0.4MPa city gas pipeline.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 3091 low pressure liquid delivery welded steel pipe

GB/T 13611 Classification and essential property of city gas

GB/T 16411 Common test methods for household gas appliances

GB 17905 domestic gas burning appliances safety management rules

GB 50028 City Gas Design Code

GB 50494 city gas specifications CJJ12 domestic gas burning appliances installation and acceptance CJJ94 city indoor gas engineering construction and quality acceptance CJJ/T 146 Technical specification for town gas alarm control system

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Civil building The general term for people to live and carry out public activity buildings. [GB 50352-2005, the definition 2.0.1]

3.2 City Gas citygas The gas source, gas distribution and supply systems through town or residential area, the supply town or residential area for the production, life and other uses , And comply with the specification of the gas quality requirements of gas fuel. [GB 50494-2009, the definition 2.0.1]

3.3 Gas category sortofgases Depending on the source or gas combustion characteristic index gas, the gas will be divided into different categories. [GB 50494-2009, the definition 2.0.3]

3.4 Appliance Adaptability adaptabilityofappliance Gas burning appliances to the changing nature of adaptability. [CJ/T 3085-1999, the definition 7.1.55]

3.5 Limit gas (gas limit) limitgas Formulated in accordance with standard gas fluctuation range of the gas allowed. [CJ/T 3085-1999, the definition 7.1.54]

3.6 Flue smokeuptake; smokeflue Remove all flue pipe. [GB 50352-2005, the definition 2.0.29]

3.7 Gas burning appliances (gas appliance) gasburningappliances Collectively with gas as fuel combustion apparatus. [CJJ12-1999, the definition 2.0.1]

4.1 Quality, characteristics and categories City Gas quality

4.1.1 shall comply with the provisions of GB 50494.

4.1.2 Type and town gas shall comply with GB/T 13611 of.

4.2 Supply pressure Appliance supply pressure fluctuation before

4.2.1 should be consistent with GB 50028 requirements.

4.2.2 altitudes greater than 500m area, gas appliance before the gas pressure should be amended in accordance with the gas density changes at different altitudes (H) when the low-pressure gas appliance rated pressure P_n can refer to Appendix A for adoption.

5 gas pipeline and equipment

5.1 pipe and fittings

5.1.1 pipes and fittings shall Sheet (sample), the description shall include at least the following technical content.

a) users to install. 1) to adapt to the medium (gas and cold, hot water, etc.) conditions; 2) to adapt to the ambient temperature and installation conditions; 3) maintenance and repair; 4) Other matters.

b) Technical Data. 1) material grade and code; 2) nominal size (diameter), outside or inside diameter, nominal pressure and nominal wall thickness; 3) Product labeling and performance standards; 4) Other matters.

5.1.2 quality pipes and fittings should be consistent with existing national standards. Connecting pipe and fittings shall meet the following requirements.

a) the performance of the connection pipe and fittings shall be consistent with existing national standards, connectivity should include at least

1.5 times the design pressure Tightness test strength test force and

1.0 times the design pressure, test conditions and test pressure shall comply with the provisions of CJJ94;

b) the use of galvanized steel pipe threaded connections, hot-dip galvanized steel should be used in line with GB/T 3091 regulations, should adopt thicker steel;

c) using the hose connection fitting shape and size should match the size of the hose. Its drawing (pulling off) strength should be consistent with existing national Line relevant standards.

5.1.3 Gas pipe and fittings durability should meet the following requirements.

5.2 Equipment

5.2.1 Gas pressure regulating device, metering devices and valves should technical specifications (sample), the description shall include at least the following.

a) users to install. 1) adaptation Gas category; 2) to adapt to the ambient temperature and installation conditions; 3) maintenance and repair.

b) Technical Data. 1) Type, marking and performance standards; 2) the product structure, materials, size and performance; 3) connection dimensions, import and export of pressure and temperature.

5.2.2 gas regulator means, product quality metering devices and valves should be consistent with existing national standards, its useful life should be in More than 10 years.

5.2.3 import and export pressure and flow gas regulator device should match the conditions of use, performance regulating device overpressure, undervoltage protection device And setting requirements should be consistent with existing national standards. When conditions change, adjust the outlet pressure shall meet the following requirements. After

a) the altitude increases, the outlet pressure regulating device should be a corresponding