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

**CJ/T 514-2018**

Replacing CJ/T 3055-1995; CJ/T 3056-1995; CJ/T 3005-1992

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**Metal valves for gas transmission  
(English Translation)**

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### Foreword

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

This standard replaces CJ/T 3005-1992 "General technical requirements for gray cast iron valves for town gas", CJ/T 3055-1995 "Gas "Test and inspection of valves" and CJ/T 3056-1995 "General technical requirements for ductile iron and cast steel valves for town gas", and Compared with CJ/T 3005-1992, CJ/T 3055-1995 and CJ/T 3056-1995, the main technical changes are as follows.

- Increased the definition, requirements and test methods for polyethylene (PE) joint metal valves (see 3.1 and 6.6 and 7.6);
- Increased the definition of DBB, DIB valves (see 3.2 and 3.3);
- Added classification and model number (see 4);
- Increased non-destructive testing requirements and test methods for welded joints (see 6.3 and 7.3);
- Increased anti-static requirements and test methods (see 6.4 and 7.4);
- Increased fire performance requirements and test methods (see 6.5 and 7.5);
- Increased elastic seal requirements and test methods (see 6.7 and 7.7);
- Increased flow coefficient requirements and test methods (see 6.8 and 7.8);
- Revised the scope of application of the standard (see Chapter 1, Chapter 1 of CJ/T 3005-1992, Chapter 1 of CJ/T 3055-1995 and Chapter 1 of CJ/T 3056-1995);
- Revised structural requirements (see 5.1, Chapter 3 of CJ/T 3005-1992, 4.2 of CJ/T 3055-1995 and CJ/T 3056-3.1 to 3.9 of 1995);
- Revised material requirements (see 5.2, Chapter 4 of CJ/T 3005-1992, 4.3 of CJ/T 3055-1995 and CJ/T 3056-3.10) of 1995;
- Modified pressure test requirements and test methods (see 6.1, 7.1, CJ/T 3005-1992, Chapter 5, CJ/T 3055-1995 Chapter 5 and Chapter 4 of CJ/T 3056-1995);

--- Revised the opening and closing torque requirements and test methods (see 6.2 and CJ/T 3005-1992, 3.6, CJ/T 3055-1995 4.5, 3.4) of CJ/T 3056-1995;

--- Revised inspection rules (see Chapter 8, Chapter 6 of CJ/T 3055-1995);

--- Removed the cleanliness check (see 4.4 of CJ/T 3055-1995).

This standard was proposed by the Institute of Standardization of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Gas Standardization Technical Committee of the Ministry of Housing and Urban-Rural Development.

This standard was drafted. National Gas Appliance Quality Supervision and Inspection Center, Ganghua Investment Co., Ltd., Suzhou City Gas Equipment Valve Manufacturing Co., Ltd., Shenzhen Gas Group Co., Ltd., Chengdu Chenggao Valve Co., Ltd., Jiangsu Chenggong Valve Technology Co., Ltd., Zhejiang Qing Hair Management Technology Co., Ltd., Shanghai Fei'ao Gas Equipment Co., Ltd., Teres Energy Equipment Co., Ltd., Tianjin Qingcheng Technology Exhibition Co., Ltd., Chongqing Shancheng Gas Equipment Co., Ltd., Ningbo Zhiqing Industrial Co., Ltd., Zhejiang Xinqi Pipe Co., Ltd., China Municipal Engineering North China Design and Research Institute Co., Ltd.

## 1 Scope

This standard specifies the classification and model of the metal valve for gas transmission (hereinafter referred to as valve) in accordance with GB/T 13611.

And materials, requirements, test methods, inspection rules, signs, nameplates and instructions, protection, packaging, transportation and storage.

This standard applies to the following valves.

--- The maximum allowable working pressure does not exceed 10MPa, the nominal size range is DN50~DN1000, and the operating temperature range is -20 ° C ~ 60 ° C ball valve;

--- The maximum allowable working pressure does not exceed 1.6MPa, the nominal size range is DN50~DN1000, and the operating temperature range is Gate valve of -20 ° C ~ 60 ° C;

--- The maximum allowable working pressure does not exceed 0.4MPa, the nominal size range is DN50~DN300, and the working temperature range is -20°C~ Butterfly valve at 60 ° C.

## 2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

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

GB/T 150.4 Pressure vessels - Part 4. Manufacture, inspection and acceptance Definition and selection of GB/T 1047 pipe component DN (nominal size) GB/T 8923.1.Determination of surface cleanliness of steels - Part 1 . Uncoated steel Corrosion grade and treatment grade of the surface of the steel after surface and overall removal of the original coating GB/T 9113 integral steel pipe flange GB/T 9124 steel pipe flange technical conditions GB/T 9440 malleable iron castings GB/T 12221 metal valve structure length GB/T 12224 steel valve general requirements GB/T 12225 general valve copper alloy casting technical conditions GB/T 12226 general valve gray cast iron parts technical conditions GB/T 12227 general valve ductile iron casting technical conditions GB/T 12232 universal valve flange connection iron gate valve GB/T 12234 Steel gate valve for bolting bonnets for oil and gas industry GB/T 12237 Steel ball valve for petroleum, petrochemical and related industries GB/T 12238 flange and clip connection elastic sealing butterfly valve GB/T 13611 town gas classification and basic characteristics GB/T 13927 industrial valve pressure test GB/T 15117 copper alloy die casting GB/T 15530.8 Copper alloy and composite flange technical conditions GB/T 15558.1 Gas-filled polyethylene (PE) piping systems - Part 1. Pipe