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

CJ/T 394-2018

Replacing CJ/T 394-2012

**Electro-magnetic emergency shut-off valve for gas
(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 394-2012 "Electromagnetic gas emergency shut-off valve". Major technical changes compared to CJ/T 394-2012 as follows.

- Added terminology and definitions (see Chapter 3, Chapter 4, Chapter 3, Chapter 4 of the 2012 edition);
- Modified classification and model preparation (see 4, 2012 edition 4);
- Modified structure, materials and connections (see 5.1, 5.2, 5.3 of 5.1, 5.2, 2012);
- Modified the leakage of external air tightness (see 6.4, 6.3 of 2012 edition);
- Added provisions for the rated flow rate of different caliber emergency shut-off valves (see 6.6);
- Revised the rated flow requirements and test methods (see 6.6, 7.5, 6.5, 7.5 of the 2012 version);
- Modified emergency cutoff performance requirements and test methods (see 6.7, 6.8, 7.7, 7.8 of 6.7, 7.7, 2012 editions);
- Modified torque and bending requirements and test methods (see 6.8, 6.9, 7.8, 7.9, 2012, 6.4, 7.4);
- Revised the durability requirements and test methods (see 6.11, 7.11, 2012 version 6.11, 7.11);
- Modified the position and switch requirements and test methods for the closed position indication (see 6.10, 7.13, 6.10, 7.10 of the 2012 version);
- Revised the requirements and test methods for explosion-proof performance (see 6.15, 7.15, 6.14, 7.14 of 2012 edition);
- Revised the requirements and test methods for durability (see 6.17, 7.17, 2012, 6.6, 7.6);

- Increased anti-explosion test requirements and test methods for non-explosion-proof structures (see Appendix B);
- Removed component requirements (see 6.2 of 2012 edition);
- Removed the label durability requirements and test methods (see 6.6.2 of 2012 edition, 7.6.2 of 2012 edition);
- Removed the scratch resistance requirements and test methods (see 6.6.3 of 2012 edition, 7.6.3 of 2012 edition);
- Removed moisture resistance requirements and test methods (see 6.6.4 of 2012 edition, 7.6.4 of 2012 edition);
- Removed the airtightness requirements and test methods (see 6.9, 7.9 of the 2012 edition);
- Removed electromagnetic compatibility (EMC) requirements (see 6.16 of 2012 edition);
- Removed the energy storage module and related description (see Appendix A of the 2012 edition).

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. China City Gas Association, Tianjin Puhai New Technology Co., Ltd., Beijing Yanshan Industrial Gas Equipment Limited Company, Zhejiang Handem Valve Co., Ltd., Shenyang Gas Co., Ltd., Zhejiang Xinqi Pipe Industry Co., Ltd., Hebei Qinhan Electronic Technology Co., Ltd.

Division, Jinan Lanxin Electronic Equipment Co., Ltd., Hebei Haoyuan Electronic Equipment Co., Ltd., Shehong Xuntebo Electronic Technology Co., Ltd., Chongqing Nishi Valve Co., Ltd., Ningbo Huacheng Valve Co., Ltd., Chengdu Xinhouse Electronic Detection Technology Co., Ltd., Guangzhou Rongxin Thermal Energy Equipment Co., Ltd.

Division, Ningbo Zhiqing Industrial Co., Ltd., Mianyang Huatong Magnetic Parts Technology Co., Ltd.

1 Scope

This standard specifies the terms and definitions, classification and models, materials and structures of electromagnetic gas emergency shut-off valves (hereinafter referred to as shut-off valves).

Requirements, test methods, inspection rules, signs and instructions for use, packaging, transportation and storage.

This standard applies to the maximum working pressure is not more than 0.4MPa, the nominal size is not more than DN300, the working temperature range is -20 °C ~ 60 °C, Electromagnetic gas emergency shut-off valve driven by electromagnetic force in conjunction with the town gas safety control system.

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 699 high quality carbon structural steel GB/T 700 carbon structural steel GB/T 1173 cast aluminum alloy GB/T 1220 stainless steel rod GB/T 1239.2 Technical requirements for cold coiled cylindrical springs - Part 2 GB/T 1348 ductile iron castings GB/T 1591 low alloy high strength structural steel GB/T 1690 vulcanized rubber or thermoplastic rubber liquid test method GB/T 3191 aluminum and aluminum alloy extruded bar GB/T 3452.1 Hydraulic and pneumatic O-shaped rubber seals - Part 1. Dimension series and tolerances GB/T 3452.2 Hydraulic and pneumatic O-type rubber seals - Part 2.

GB 3836 (all parts) Explosive environment GB/T 4208 enclosure protection grade (IP code) GB/T 4423 copper and copper alloy rods GB/T 5013.1 Rubber insulated cables of rated voltages up to and including 450 750 s. Part 1. General requirements GB/T 5023.1 PVC insulated cables of rated voltages up to and including s GB/T 7306.1 55° sealed pipe threads - Part 1. Cylindrical internal and conical external threads GB/T 7306.2 55° sealed pipe threads Part 2. Conical internal and conical external threads GB/T 9113 integral steel pipe flange GB/T 9440 malleable iron castings GB 10009 Acrylonitrile-butadiene-styrene (ABS) plastic extruded sheet GB/T 12220 industrial valve sign GB/T 12221 metal valve structure length GB/T 12225 general valve copper alloy casting technical conditions GB/T 12227 general valve ductile iron casting technical conditions GB/T 12229 general valve carbon steel casting technical conditions GB/T 12230 general valve stainless steel casting technical conditions