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

CJ/T 219-2017

Replacing CJ/T 219-2005

**Hydraulic control valves
(English Translation)**

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Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and Definitions
4 Structure and Type
5 Material
6 Request
7 Test Method
8 Inspection Rules
9 Signs, Packaging and Storage
Appendix A (informative) Hydraulic control valve structure type diagram
Appendix B (Informative) Hydraulic Control Valve Performance Test System Figure

Foreword

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

This standard replaces CJ/T 219-2005 "Hydraulic Control Valve", compared with CJ/T 219-2005, except for editorial modification of the main technology the changes are as follows.

- Modify the nominal size and nominal pressure range;
- Modify "adjustable pressure relief valve" as "split pilot decompression regulator valve";
- Removed the terms slow closing muffler check valve, water pump control valve and emergency stop valve;
- Modify "differential pressure bypass valve" as "pressure differential control valve";
- Modify the structure type, remove the slow closing anechoic check valve, pump control valve and emergency stop valve, new Y-type diaphragm main valve;
- Added coating and appearance requirements;
- Added hydraulic loss and low pressure water seal test requirements;
- Increased the requirements for the normal opening and closing of differential float valves;

--- Modified pressure relief/pressure valve technical performance parameters;

--- Revised inspection item list.

This standard is proposed by the Institute of Standardization of Housing and Urban-Rural Development Standards.

This standard is under the jurisdiction of the Ministry of Housing and Urban-Rural Construction Water Supply and Drainage Standardization Technical Committee.

1 Scope

This standard specifies the terms and definitions of hydraulic control valves, structure types and models, materials, requirements, test methods, inspection rules, and signs.

Packaging and storage.

This standard applies to the nominal size DN50 ~ DN1000, the maximum allowable working pressure is not greater than 4MPa, the temperature is 0 °C ~ 80 °C, the working medium is the water control valve for water supply systems such as production, life, and fire protection of clean water.

2 Normative references

The following documents are indispensable for the application of this standard. For dated references, only dated versions apply to this article. For undated references, the latest version (including all amendments) applies to this document.

GB/T 1220 stainless steel rod GB/T 1239.2 Cold-rolled cylindrical coil springs - Part 2. Compression springs GB/T 23935 cylindrical spiral spring design calculation GB/T 1732 paint film impact resistance test GB/T 3098.1 Mechanical properties of fasteners Bolts, screws and studs GB/T 4956 Magnetic coating on non-magnetic covering layer thickness magnetic method GB/T 5210 Paint and Varnish Pull-Off Adhesion Test GB/T 6739 paint and varnish pencil method for determining film hardness GB/T 8923.1-2011 Preparation of steel substrates before application of paints. Visual assessment of surface cleanliness. Part 1. Uncoated Steel surface and full removal of the original coating steel surface corrosion rating and processing level GB/T 9113 Integral Steel Pipe Flange GB/T 9124 Steel Pipe Flange Technical Conditions Cross-cut test of GB/T 9286 paint and varnish paint film GB/T 9969 Instruction Manual for Industrial Products 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 technical conditions GB/T 12229 General Valve Carbon Steel Casting Technical Conditions GB/T 12230 General Valve Stainless Steel Casting Technical Conditions GB/T 13927 industrial valve pressure test GB/T 17219 Safety Evaluation Standard for Drinking Water Distribution Equipment and Protective Materials for Drinking Water GB/T 17241.6 Integral cast iron flange GB/T

17241.7 Cast iron pipe flange technical conditions GB/T 20878 stainless steel and heat-resistant steel grades and chemical composition GB/T 26640 valve shell minimum wall thickness dimension specification GB/T 32808 valve model preparation method