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

GB/T 24924-2010

Resilient-seated gate valves for water supply service

供水系统用弹性密封闸阀

(English Translation)

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Foreword

This revised standard adopts AWWAC509.2001 "water supply system with elastic sealing valve" (in English).

This standard AWWAC509.2001 The main differences are as follows.

- AWWAC509 standard referenced are changed to refer to relevant standards in China;
- AWWAC509 US units, this standard metric units;
- Deleted AWWAC509 foreword;
- AWWAC509 standard nominal size 75mm ~ 750mm, according to GB/T 1047 series of values, this standard were taken DN80, DN800; the scope of this standard from DN75 ~ DN750 extended to DN50 ~ DN800;
- Increased structural diagram next shot type valve and the dark bar gate valve;
- Increasing the cap and the structure diagram and dimensions;
- Table 2 for values of stem diameter were rounded, and remove the valve opening lap one;
- Added "8 Inspection Rules" chapter;
- Added Appendix A (normative) "test torque." Appendix A of this standard is a normative appendix.

The standard proposed by China Machinery Industry Federation.

The standard valve by the National Standardization Technical Committee (SAC/TC188) centralized.

1 Scope

This standard specifies the elastic sealing valve (hereinafter referred to as gate) terms and definitions, structure and length of the structure, technical requirements, materials, Test methods, inspection rules, signs and supply requirements.

This standard applies to nominal size no greater than DN300, nominal pressure of not more than PN25, or greater than the nominal size DN300 ~ DN800, Nominal pressure of not more than PN16; temperature of not more than 80 °C; flange; iron gate for water supply systems of procurement, design, manufacture and acceptance.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1220 stainless steel rods GB/T 3452.1 hydraulic and pneumatic rubber O-ring Part 1. Dimensions, tolerances (GB/T 3452.1-2005, ISO 3601-1:2002, MOD) GB/T 5796.3 trapezoidal thread Part 3. Basic Size (GB/T 5796.3-2005, ISO 2904. 1977, MOD) GB/T 5796.4 trapezoidal thread Part 4. Tolerances (GB/T 5796.4-2005, ISO 2903:1993, MOD) GB/T 6739-2006 Determination of film hardness by pencil paints and varnishes (ISO 15184:1998, IDT) GB/T 8923-1988 steel surface before painting Rust grades and grade (eqv ISO 8501-1. 1988) GB/T 9286-1998 Paints and varnishes cut test (eqv ISO 2409:1992) GB/T 12220 Universal Valve logo (GB/T 12220-1989, idt ISO 5209. 1977) GB/T 12221 Universal valve structure length (GB/T 12221-2005, ISO 5752. 1982, MOD) GB/T 12225 General Valve copper alloy castings GB/T 12226 General Valve gray iron castings GB/T 12227 General Valve iron castings GB/T 13927 universal valve pressure test GB/T 17219 in drinking water safety equipment and protective materials evaluation criteria GB/T 17241.6 whole cast iron flanges GB/T 17241.7 cast iron pipe flanges (GB/T 17241.7-1998, neqISO 7005-2. 1988) JB/T 7928 General Valve supply requirements HG/T 3091 rubber seals, drainage and sewerage pipelines - Interface ring material specification

3 Terms and Definitions

The following terms and definitions apply to this standard.

Elastic sealing resilient-seat One kind of gate valve sealing structure and the elastic flat seat (with the whole body cast) thereof.

Seal stemsealing

On the bonnet or stem, seals or packing filler, used to prevent stem leakage structure.