GB

NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

ICS 91.140

CCS Y 71

GB/T 26712-2021

Replacing GB/T 26712-2011

Supply stops for sanitary appliance and steam pipe

卫生洁具及暖气管道用角阀

Issued on: August 20, 2021 **Implemented on: March 01, 2022**

Issued by: State Administration for Market Regulation;
Standardization Administration of the People's Republic of China.

Table of Contents

Foreword 3
1 Scope 5
2 Normative references 5
3 Terms and definitions 6
4 Classification and marking 7
5 Conditions of use 8
6 Materials 8
7 Requirements 8
8 Test methods 12
9 Inspection rules 15
10 Marking, packaging, transportation and storage 18
Appendix A (Normative) Product type and size 20
Appendix B (Normative) Thread axis angle test device 24

Supply stops for sanitary appliance and steam pipe

1 Scope

This document specifies the terms and definitions, classification and marking, conditions of use, materials, requirements, test methods, inspection rules, marking, packaging, transportation and storage of supply stops for sanitary appliance and steam pipe.

This document applies to angle valves used in water supply pipes or heating pipes installed in buildings.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 1176, Casting copper and copper alloys

GB/T 2828.1, Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2829, Sampling procedures and tables for periodic inspection by attributes (apply to inspection of process stability)

GB/T 5231, Designation and chemical composition of wrought copper and copper alloys

GB/T 6461-2002, Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates - Rating of test specimens and manufactured articles subjected to corrosion tests

GB/T 7306.1, Pipe threads with 55 degree thread angle where pressure-tight joints are made on the threads - Part 1: Parallel internal and taper external threads

GB/T 7306.2, Pipe threads with 55 degree thread angle where pressure-tight joints are made on the threads - Part 2: Taper internal and external threads

GB/T 7307, Pipe threads with 55 degree thread angle where pressure-tight joints are not made on the threads

GB/T 8170-2008, Rules of rounding off for numerical values & expression and judgment of limiting values

GB/T 10125-2012, Corrosion tests in artificial atmospheres - Salt spray tests

GB/T 20878-2007, Stainless and heat-resisting steels - Designation and chemical composition

GB/T 31586.2-2015, Corrosion protection of steel structures by protective paint systems - Assessment of, and acceptance criteria for, the adhesion/cohesion (fracture strength) of a coating - Part 2: Cross-cut testing and ×-cut testing

GB/T 33733, Terminology and classification for the kitchen and sanitary ware fittings

QB/T 5419-2019, General specification for coatings of kitchen & sanitary hardware

QB/T 5525, Limits and test methods for hazardous substances extraction in kitchen and sanitary hardware products

3 Terms and definitions

For the purposes of this document, the following terms and definitions, as well as those given in GB/T 33733, apply.

3.1

angle valve for sanitary coming into drinking water

Angle valve for sanitary appliance installed on drinking water pipes (such as the front end of basin faucets, kitchen faucets and other water supply appliances).

3.2

angle valve for cool water

Angle valve suitable for water temperature not higher than 50 ℃.

3.3

angle valve for hot water

Angle valve suitable for water temperature higher than 50 ℃.

4 Classification and marking

4.1 Classification

4.1.1 Divided into angle valve for sanitary appliance and angle valve for steam pipe according to their use. The codes are as specified in Table 1.

4.1.2 The valve body material in contact with water is divided into copper alloy, stainless steel, plastic, ceramic and others. The codes are as specified in Table 2.

4.1.3 Divided into internal thread and external thread according to the thread type of the water inlet end. The codes are as specified in Table 3.

4.1.4 Divided into DN15, DN20 and DN25 according to the nominal size of the water inlet end.

4.1.5 Divided into rotary type and push type according to the flow opening and closing control method.

4.2 Marking

Angle valves are marked as follows.

Example 1: The angle valve for sanitary coming into drinking water, whose valve body material is copper alloy, connection is external thread, nominal size is DN15, is marked as "JWY-TW15 GB/T 26712-2021".

Example 2: The angle valve for steam pipe, whose valve body is stainless steel, connection is external thread, nominal size is DN20, is marked as "JN-BW20 GB/T 26712-2021".

5 Conditions of use

The product shall be able to be used normally under the conditions specified in Table 4.

6 Materials

6.1 Materials used in products that come into direct contact with water shall not pollute the water quality under the conditions of use specified in this document. Zinc alloys and other easily corrosive materials are not permitted to be used.

6.2 Cast copper materials shall comply with the provisions of GB/T 1176; processed copper materials shall comply with the provisions of GB/T 5231.

6.3 Stainless steel materials shall be 06Cr19Ni10 specified in GB/T 20878-2007 or other stainless-steel materials with corrosion resistance not inferior to the above designations.

6.4 Other materials shall meet the performance requirements.

7 Requirements

7.1 Appearance

7.1.1 The casting surface shall be free of obvious defects such as scratches, dents, shrinkage cavities, sand-holes, sharp edges, burrs, cracks and pores.

7.1.2 The surface of plastic parts shall not have obvious defects such as filler spots, ripples, overflow, shrinkage marks, warping, weld marks, etc.

7.1.3 The electroplated surface shall have a uniform gloss and shall not have defects such as peeling, cracking, burning, exposed bottom, flaking, black spots, obvious pitting, burrs, etc.

7.1.4 The sprayed surface shall have firm adhesion and uniform color, and shall not have obvious defects such as sagging, paint accumulation and exposed bottom.

7.1.5 The polished surface shall be smooth and free of obvious burrs, scratches, etc.

7.2 Processing and assembly

7.2.1 The external sealing pipe threads of the product shall comply with the provisions of GB/T 7306.1 or GB/T 7306.2; the external non-sealing pipe threads of the product shall comply with the provisions of GB/T 7307, and the external thread shall not be less than the Class B accuracy of GB/T 7307.

7.2.2 The thread surface shall not have obvious defects such as dents and broken teeth, and the surface roughness (Ra) shall not exceed 6.3 μm.

7.2.3 The maximum deviation of the angle between the axes of the two connecting threads on the valve body shall not exceed 2°.

7.2.4 The product shall be easy and smooth to open and close without any obstruction; the rotary angle valve shall be closed by rotating it in a clockwise direction and opened by rotating it in a counterclockwise direction.

7.2.5 Metal chips, impurities, etc. attached to the inner cavity of the product shall be cleaned out.

7.3 Dimensions

The dimensions of the product shall comply with the provisions of Appendix A.

7.4 Resistance to operational load

7.4.1 Push-type angle valve

Carry out the test according to 8.4.1. After withstanding an axial pressure of 250 N ± 5 N, there shall be no permanent deformation or damage, and the sealing performance shall comply with the requirements of 7.9.1.

7.4.2 Rotary angle valve

Carry out the test according to 8.4.2. After withstanding a torque of 4.0 N·m ± 0.5 N·m, no part of the valve body shall be permanently deformed or damaged, and the sealing performance shall comply with the requirements of 7.9.1.

7.5 Anti-installation load

This is an excerpt of the PDF (Some pages are marked off intentionally)

------ The End ------