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Replacing GB 25501-2010

Minimum allowable values of water efficiency and water efficiency grades for faucets

水嘴水效限定值及水效等级

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Foreword

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

This Standard replaces GB 25501-2010 “Minimum allowable values of water efficiency and water efficiency grades for faucets”. Compared with GB 25501-2010, main technical changes in this Standard are as follows:

- modified the standard scope;

- modified some terms and definitions;

- modified basic requirements;

- modified indicators of flow uniformity;

- modified indicators of water efficiency grades for faucets.

This Standard was proposed by Standardization Administration of the People's Republic of China, Department of Resource Conservation and Environmental Protection, National Development and Reform Commission of People's Republic of China.

This Standard shall be under the jurisdiction of Standardization Administration of the People's Republic of China.

The drafting organizations of this Standard: Jiumu Kitchen & Bathroom Co., Ltd., Guangdong Huayi Sanitary Ware Industry Co., Ltd., Anhui Xueyu Sanitary Ware Co., Ltd., Guangdong Lehua Home Furnishing Co., Ltd., Hengjie Bathroom Group Co., Ltd., Xinle Bathroom (Foshan) Co., Ltd., Liaoning Supor Sanitary Ware Co., Ltd., Ningbo Jiemin Sanitary Ware Technology Co., Ltd., Luda (Xiamen) Industry Co., Ltd., Zhejiang Ruige Copper Industry Co., Ltd., Zhejiang Gaobo Sanitary Ware Co., Ltd., Zhejiang Sulda Sanitary Ware Co., Ltd., Zhejiang Anma Sanitary Ware Co., Ltd., Zhejiang Zhigao Sanitary Ware Co., Ltd., Zhejiang Kangyi Sanitary Ware Co., Ltd., Guangdong Weixiang Sanitary Ware Industry Co., Ltd., Kaiping Hanmak Sanitary Ware Co., Ltd., Guangdong Conner Sanitary Ware Technology Co., Ltd., Guangdong Oumeier Industry and Trade Industrial Co., Ltd., Kaiping Circuit Leading Fittings Co., Ltd., Xiamen Ruierte Sanitary Technology Co., Ltd., Guangdong Zhongou Sanitary Ware Co., Ltd., Yiyuan (Shanghai) Energy-saving Environmental Protection Technology Co., Ltd., Guangdong Jinen Sanitary Ware Industry Co., Ltd., Guangdong Anbi Technology Co., Ltd., Braun (China) Sanitary Ware Co., Ltd., Huida Sanitary Ware Co., Ltd., Guangdong Shang Hi-Tech Co., Ltd., Xiamen Haoyamei Hardware Sanitary Ware Industry Co., Ltd., Grand Hyatt Shower Hose (Xinhui) Co., Ltd., Foshan Dongpeng Sanitary Ware Co., Ltd., Foshan Jiajia Sanitary Ware Co., Ltd., Quanzhou Lianchuang Kitchen & Bath Co., Ltd., Fujian Nan'an

Minimum allowable values of water efficiency and water efficiency grades for faucets

1 Scope

This Standard specifies minimum allowable values of water efficiency, evaluating values of water conservation, water efficiency grades and test methods for faucets.

This Standard is applicable to water efficiency evaluation for wash-basin faucets, kitchen faucets, bidet faucets and ordinary faucets that are mounted at cold and hot water supply pipe ends in buildings, that the nominal pressure (static pressure) is not greater than 1.0MPa, and the medium temperature is 4°C~90°C.

This Standard is not applicable to the faucets with delayed self-closing function.

2 Normative references

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

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

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 33733 as well as the followings apply.

3.1 uniformity of flow; ΔF

The difference between the highest average flow and the lowest average flow of a faucet under different test pressures.

3.2 minimum allowable values of water efficiency for faucet

The maximum flow that is allowed by a faucet under standard-specified test conditions.

The faucet flow specified in water efficiency grade 2.

5 Test methods

5.1 General provisions

5.1.1 The test devices for faucet flow and uniformity of flow tests shall meet the requirements of Annex A.

5.1.2 Conduct pre-washing of test sample not less than 30s at a dynamic pressure of (0.30±0.01) MPa before test.

5.1.3 The test water temperature shall be controlled at (25±3)°C.

5.2 Flow test

5.2.1 The dynamic pressure during test is (0.10±0.01) MPa.

5.2.2 The flow test steps of various faucets are as follows:

a) Single-handle single-control faucet

Connect the faucet on the test device according to Figure A.1. Open the handle to the maximum water outlet position. Record the flow value when the flow is stable.

b) Single-handle double-control faucet

Connect the faucet on the test device according to Figure A.1. Respectively measure the flows at cold-water fully-open position, hot-water fully-open position and maximum flow position of mixed water. Take the maximum value.

c) Double-handle double-control faucet

Connect the faucet on the test device according to Figure A.1. Respectively measure the flow at the position where cold and hot water are turned on separately to the maximum and the flow of mixed water at the position where hot and cold water are turned on at the same time to the maximum. Take the maximum value.

d) Non-contact faucet

Connect the faucet on the test device according to Figure A.1. Make the faucet at turned-on state. Record the flow value after the flow is stable. Repeat the test 3 times. Take its arithmetic mean as the flow value of this faucet.

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