

ICS 91.060

QB

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

QB/T 2806-2017

**Thermostatic faucets
(English Translation)**

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1 Scope

This standard specifies the terms and definitions, classification and naming, conditions of use, materials, supporting devices, requirements, single-handle three-control thermostatic faucets, test methods, inspection rules, marking, packaging, transportation and storage of thermostatic faucets.

This standard applies to the cold-water & hot-water mixed faucet which is at nominal pressure, has an ordinary-water-pressure of not more than 0.5 MPa and a high-water-pressure of not more than 2 MPa, a cold-water temperature of 4 °C ~ 29 °C and a hot-water temperature of 45 °C ~ 85 °C, is mounted on the sanitary facilities in the washroom (toilets, bathroom, etc.), kitchen and so on, whose outlet water temperature is automatically controlled by the pre- selected temperature.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

GB/T 2828.1-2012 Sampling procedures for inspection by attributes - Part 1.

Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 5270-2005 Metallic coatings on metallic substrates - Electrodeposited and chemically deposited coatings - Review of methods available for testing adhesion

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 9286-1998 Paints and varnishes - Cross cut test for films

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

GB 18145-2014 Ceramic cartridge faucets

GB/T 23447 Shower outlets for bathing

GB/T 23448 Flexible hose for sanitary tapware

JC/T 932 Drainage fittings for sanitary wares

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Thermostatic faucets

The faucets which, when the inlet water temperature and pressure change within a certain range, automatically adjust the incoming flowrate of cold- water and hot-water, to stabilize the outlet water temperature in a certain range.

3.2

Single handle, double handle

The quantity of handles or handwheels which control the outlet water temperature, flowrate, open-close of the faucets. Single handle refers to using one handle or handwheel to control the outlet temperature or both flowrate and open-close. Double handle refers to using two handles or handwheels to respectively control the outlet water temperature, flowrate and open-close.

3.3

Single handle double control, single handle three control

Single-handle double control refers to using one handle or handwheel to control the outlet water temperature and open-close. Single-handle three- control refers to using one handle or handwheel to control the outlet water temperature, flowrate, open-close.

3.4

Close the inlet water

The open-close of the faucet is realized by opening-closing the cold and hot inlet water.

3.5

Close the outlet water

The open-close of faucet is directly achieved by opening-closing the mixed water.

3.6

Safety with cold-water or hot water failure

When cold-water or hot-water is out of supply, the temperature control device reacts quickly to regulate the hot-water or cold-water supply, so that the outlet water temperature and flowrate reach the specified value, thereby avoiding burns of human body or uncomfortable sense.

4.1 Classification

4.1.1

According to the number of control handles, it is divided into single-handle and double-handle.

4.1.2

According to the type of temperature control, it is divided into constant- temperature faucet (hereinafter referred to as T) and constant-temperature constant-pressure faucet (hereinafter referred to as TP).

4.1.5

According to the use pressure, it is divided into ordinary-water-pressure and high-water-pressure.

4.2 Naming

The name shall include the number of control handles, the type of temperature control, the location of use, the form of installation, the pressure of use.

Example.

5.1.1 Ordinary-water-pressure. water supply pressure 0.1 MPa ~ 0.5 MPa. If it

exceeds 0.5 MPa, it shall add a relief valve.

5.1.2 High-water-pressure. water supply pressure 0.1 MPa ~ 2.0 MPa. It is recommended for the water pressure for normal use to be 0.3 MPa ~ 1.5 MPa.

5.2 Temperature for use of medium

Cold-water temperature 4 °C ~ 29 °C, hot-water temperature 45 °C ~ 85 °C. It is recommended for the hot-water temperature for normal use to be 50 °C ~

75 °C.

6 Materials

6.1

All materials in direct contact with drinking water used in the product shall, under the conditions of use as specified in this standard, neither cause harm to human health, nor cause any changes in water quality, appearance, taste, smell of drinking water.

6.2

Parts of faucets that are in contact with water shall not be made of easily- corroded materials such as zinc alloys.

7 Supporting devices

7.1

The sprinkler matched with the faucet shall comply with the provisions of GB/T 23447.

7.2

The hose matched with the faucet shall comply with the provisions of GB/T 23448.