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

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**Sanitary ware - Gravity water flushing devices and supports
(English Translation)**

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1 Scope

This standard specifies the terms and definitions, technical requirements, test methods, inspection rules, markings and identifications, packaging, transportation, storage of gravity water flushing devices for toilet AND supports of sanitary ware.

This standard is applicable to the flushing devices that are installed on cold water supply pipelines, which has a static pressure of not greater than 0.6 MPa

AND functions by the gravity of the water, for various toilets, as well as the supports for wall-mounted sanitary ware.

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 3768 Acoustics - Determination of sound power levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane

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 6952 Sanitary wares

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

GB/T 9195 Classification and terms of building and sanitary ceramics

GB/T 10125-1997 Corrosion tests in artificial atmospheres - Salt spray tests

GB/T 17219 Standard for safety evaluation of equipment and protective mater

GB/T 23448 Flexible hose for sanitary tapware

3 Terms and definitions

The terms and definitions as established in GB/T 9195 AND the following terms and definitions apply to this document.

3.1 Flush tank

A special flush tank, which is equipped with such accessories as fill valves, flush valves, driving devices, etc., for direct flushing of toilets or other sewage devices.

3.2 Fill valve

A device used in the flush tank, to control the water level to a preset position.

3.3 Flush valve

A device in the flush tank, that opens or closes the drain hole.

3.4 Affixes of flush tank

The components other than the fill valve and the flush valve, which are used to manipulate or assist the flush tank to complete the flushing action, as well as the components for installing or fixing the flush tank or flush tank's accessories.

3.5 Inner flush tank

A flush tank that does not have to bear external force, has no appearance requirements, only guarantees the flushing function. It is a flush tank usually set in a ceramic flush tank, OR a flush tank installed in other furniture in a hidden manner.

4 Materials

4.1

For all materials in the flushing device that are in direct contact with drinking water, they

shall meet the requirements of GB/T 17219. Other materials shall meet the requirements of product performance.

4.2 When the toilet uses seawater, reclaimed water, rainwater or other water

containing chemical components, the materials and seals used in the gravity flushing device for the toilet shall meet the corresponding requirements for use.

The technical requirements and test methods may be agreed between the supplier and the buyer.

5.1.1 Surface quality

5.1.1.1

The outer surface of the metal parts shall not have defects such as shrinkage holes, blisters, cracks or pores; the inner cavity shall not have adhered molding sand.

5.1.1.2

The surface of the plastic part shall not have obvious ripples, weld marks,

5.1.1.4

The appearance quality of ceramic parts shall meet the requirements of GB 6952.

5.1.2 Corrosion resistance of coating on exterior parts

After the acid salt spray test, the appearance level of the visible coating surface after installation shall meet the requirements of level 6 in GB/T 6461-2002.

5.1.3 Installation and removal

All parts shall be easy to install and disassemble. After installation, all movable parts shall move flexibly without jamming.

5.1.4 Drive mode

It shall not use the open-stop (intermittent) drain-close drive mode.

5.1.5 Water volume adjustment function

The flushing device shall have the function of adjusting the water volume. For special products that require a fixed water consumption, they can be as required by the contract.

5.2.3 Inlet water flow

Under the dynamic pressure of 0.05 MPa, the inlet water flow rate shall not be less than 0.05 L/s. Under the dynamic pressure of 0.5 MPa, the inlet water flow rate shall not be

greater than 0.33 L/S.

5.2.4.1 Tightness at static pressure

After the test of tightness at static pressure, the rising height of the water level in the flush tank shall not be greater than 8 mm. Meanwhile there shall be no visible drips after the fill valve is closed.

5.2.5 Pressure resistance

After the test of pressure resistance, the fill valve shall be free from leakage, deformation, sweating, or any other damage.

5.2.6 Resistance to thermal denaturation

After the test of resistance to thermal denaturation, the fill valve shall not have leakage, deformation, sweating and any other damage. For the fill valve with the water replenishment pipe, the water replenishment pipe shall not fall off.

5.2.8 Reopen function

Carry out the reopen function test. When draining to the specified test height, the fill valve shall be able to automatically open, to fill water; meanwhile, after reaching to the working water level, it shall be able to automatically close. The height difference of the working water level for 5 consecutive water fillings shall not be greater than 5 mm.

5.2.9 Water hammer

Carry out the test in accordance with the provisions of 6.14. When the fill valve is closed, there shall be no water hammer that increases the pressure by more than 0.2 MPa.

5.2.10 Water filling noise

The noise generated shall, during the water filling process, not exceed 55 dB(A).

5.2.11 Durability of fill valve

After the durability test, the fill valve shall be free of leakage or any other failures.

5.4 Technical requirements for flush tank

In addition to the requirements of 5.1, 5.2 (except 5.2.8 and 5.2.11) and 5.3.1, 5.3.2, 5.3.5, the components of the flush tank shall also meet the following requirements. When the matched installation of the flush tank and the toilet requires the use of sanitary ware support, it shall meet the requirements of 5.5.