

TGL-11-R1-03

Faucets and Sanitary Accessories

Faucets and accessories used in toilet formally applied to another sanitary appliances such as wash basins, sinks, urinals and closets. The application of those mentioned appliances consume water in significant way. From the study of water consumption in Bangkok Metropolitan, Faculty of engineering, Chulalongkorn university, it is demonstrated that the average water consumption in Bangkok is about 320-340 liters per capita per day. When the consumption of water supplied from Metropolitan Waterworks Authority is divided in three main areas which are in residential area as of 49.5% and 49.8% was supplied in business, state enterprise, governmental, industrial and service area. Furthermore, the rest 0.6% is used in public service and another area.

In general, at pressure 0.1 megapascal or 1 kg/cm², the flow rate of manual faucets for sinks and wash basins, showers, Rinsing sprays and flush valves for urinals which have been sold in Thailand shall not exceed than 6, 9, 7-9 litres per minute and 2 litres per time, respectively as follow announcement in the Government gazette (vol. Royal Decree, book 119 section 95 a ; September 27, 2002.)

According to its consideration as insufficient resource in the near future, water should take into account as a limited natural resource. Thus, green label criteria for water-economizing faucet will reinforce sustainability of water utilization. Particularly, for automatic faucet which can save water more than 40 percent compared with manual faucet.

Category Definition

This category includes all faucets as defined in the following sub-categories:

2.1 Faucets

- 1) Manual faucet
 - faucets for showers
 - faucets for sinks
 - faucet for wash basins
- 2) Self-closing faucets for wash basins
- 3) Automatic faucets

2.2 Showers

2.3 Flush valves for urinals

2.4 Rinsing sprays

Green label requirements

To be authorized to carry the Green label, a product must meet both the general requirements and the specific requirements listed below:

A. General Requirements

In the event of any conflict arising, the original criteria in Thai is to be final authority.

The product must:

1. be certified to the applicable Thai Industrial Standard as follows :
 - TISI 1189, Standard for Faucets For Showers
 - TISI 1277, Standard for Sinks
 - TISI 1278, Standard for Wash Basins
 - TISI 1377, Standard for Self-closing Faucets For Wash Basins
 - Standard for automatic faucets for sanitary accessory conform to TISI : automatic faucets for sanitary accessory.
 - TISI 1187, Standard For Shower
 - TISI 1094, Standard For Flush Valves For Urinals
 - TISI 1497 , Standard For Rinsing Spraysor if not certified, must have passed the Thai Industrial Standard product quality test or other standardized test of product quality; and
2. be manufactured, transported and disposed in a manner meeting requirements of all applicable governmental acts and regulations.

B. Product Specific Requirements

1. Faucets
 - 1.1 Manual Faucet must have the water flow rate not more than 6.0 liters/min. (cubic decimetre/min.) per minute rate at pressure 0.1 ± 0.01 megapascal.
 - 1.2 Self-closing Faucets For Wash Basins must have the water flow rate between 0.2 to 0.5 liters (error ± 0.05 litres) in 3 to 6 seconds (error ± 1 second) at the pressure 0.1 ± 0.01 megapascal.
 - 1.3 Automatic Faucet must have flow rate not more than 5.0 liters/min. at pressure 0.1 ± 0.01 megapascal.
2. Showers

The product must have the water flow rate not more than 7.0 liters/min. at the pressure 0.1 ± 0.01 megapascal.
3. Flush valves for urinals

The product must have the water flow rate not greater than 1.5 liters in 15 seconds at the pressure 0.1 ± 0.01 megapascal.
4. Rinsing Sprays

The product must have the water flow rate not greater than 5.0 liters/min. at the pressure 0.1 ± 0.01 megapascal.