

Code of practice for water services

AMENDMENT NO. 1

August 2019

1. Page 12, 4.3 NEWater

Insert the following new clause 4.4 after clause 4.3:

4.4 Private water supplies

Private water suppliers have to obtain PUB's written approval for supply of piped drinking water for human consumption.

NOTE – For terms and conditions, consult PUB.

2. Page 29, 8.1.1 Rates of flow

Replace clause 8.1.1 with:

The actual rate of flow of water available for fittings and appliances depends on the water head available and the design of the water service. Table 1 sets out the maximum allowable flow rates, lower and upper bound flow rates for fittings and appliances for which the design should provide. In designing, it is necessary to make some assumptions as to the number of fittings that may be called upon to discharge water simultaneously. Table 1 also sets out the recommended best water conservation flow rates for fittings and appliances which designers are encouraged to use to achieve the best water conservation results.

3. Page 30, 8.1.2 Efficiency rating

Replace 2nd paragraph of 8.1.2 with:

For all new developments and premises undergoing renovations, only water fittings, apparatus, appliances and products that are labelled with at least a 2-tick water efficiency rating and above shall be installed and used. Designers are encouraged to use those that are labelled with more ticks for best water conservation results.

4. Page 30, Table 1 Flow rates at various fittings or appliances

Replace Table 1 with the following table:

Table 1 – Flow rates at various fittings or appliances

| Fitting or appliance | Maximum flow rate (cold water or hot water) | Best water conservation flow rate | Lower bound flow rate | Upper bound flow rate |
|---|--|--|--|------------------------------|
| | L/min | L/min | L/min | L/min |
| Wash basin tap | 4 | 2 | 1.5 | 4.5 |
| Shower | 7 | 5 | 4.5 | 7.5 |
| Sink / Kitchen and other taps (except bathtub taps) | 6 | 4 | 2.5 (for 3-tick) 3.5 (for 2-tick) | 6.5 |
| Bib tap | 6 | 4 | 3.5 | 6.5 |

5. Page 31, Table 2 Maximum allowable flow rates and timing for self-closing delayed-action taps

Replace Table 2 with the following table:

Table 2 – Maximum allowable flow rates and timing for self-closing delayed-action taps

| Usage | Flow rate | Timing |
|----------------------------|-----------|--------|
| i. Basin | 4 L/min | 2-3 |
| ii. Basin (public toilets) | 2 L/min | 2-3 |
| iii. Shower | 7 L/min | 13-15 |

6. Page 31, 8.2.7d) Flush valve

Replace 8.2.7d) with the following:

All flush valves shall be adjusted to give a flush of not more than 1 L (urinals of width size > 300 mm) and 0.5 L (urinals of width size ≤ 300 mm) of water per flush respectively or not more than 4.5 L of water per flush for water closets.

7. Page 32, 8.2.7o) Flush valve

Replace 8.2.7o) with the following:

For sensor-operated flush valves with manual by-pass or override, the flushing shall take place immediately and the automatic flushing shall be overridden to prevent double flushing when manual bypass or override flushing is activated. The volume of water discharged per flush shall continue to be not more than 1 L (urinals of width size > 300 mm) and 0.5 L (urinals of width size ≤ 300 mm) of water per flush respectively or not more than 4.5 L for water closets notwithstanding that the operating member continues to be held activated.

8. Page 33, clause 8.3.2 Flushing cisterns

Replace clause 8.3.2 with the following:

Every flushing cistern serving a water closet pan shall be of such a design as to give a dual-flush of 2 different volumes such that the volume of the full flush does not exceed 4.0 L and the volume of the reduced flush does not exceed 3.0 L.

9. Page 33, 8.3.3 Handheld bidet spray

Replace clause 8.3.3 with the following:

Handheld bidet spray (connected to a flexible hose) located next to a water closet shall be installed with a check valve and vacuum breaker. The flow rate of the handheld bidet spray should not be more than 6 L/min.

10. Page 34, 8.3.10 High-pressure washers

Insert the following new clause 8.3.11 after clause 8.3.10:

8.3.11 Concealed shower taps and mixers

Every shower outlet using concealed shower tap or mixer should be installed with showerheads registered under the Voluntary Water Efficiency Labelling Scheme (VWELS) of at least a 2-tick rating.

11. Page 52, 11.2.1 All new domestic and non-domestic developments, existing domestic and non-domestic premises undergoing renovations

Replace clause 11.2.1 with the following:

Only water fittings, apparatus, appliances and products with at least a 2-tick water efficiency rating and above under the Authority's Mandatory Water Efficiency Labelling Scheme shall be installed and used.

12. Page 53, 11.2.3 Toilets/washrooms in all non-domestic premises (including the common amenities of condominiums)

Insert the following new item (c) after item (b):

(c) Display notices/posters with hotline to facilitate public feedback on maintenance issues such as leaking water fittings, faulty water fittings, etc.

13. *Replace* the term 'Licensed Water Service Worker' with 'Licensed Plumber' throughout the standard.