

DRAFT Standard for dual reticulation infrastructure

This Standard is published by the Technical Regulator pursuant to section 66 of the Water Industry Act 2012 (the Act).

This Standard comes into effect on the date on which it is gazetted.

The purpose of the Standard is to prescribe the minimum requirements and responsibilities of all parties involved in dual reticulation infrastructure to ensure the safety and reliability of the water services provided to South Australian consumers.

Scope

This Standard sets out requirements for the safe design, installation and construction of non-drinking water infrastructure and connections to properties. This Standard is in addition to requirements set out in the Water Services Association of Australia (WSAA) codes.

Objective

To ensure the safety and reliability of non-drinking water infrastructure and to prevent any adverse impact on drinking water supplies associated with dual reticulation infrastructure.

Definition

Drinking water:

Water that is suitable for human consumption, food preparation, utensil washing and oral hygiene.

Non-drinking water:

Any water that is not drinking water.

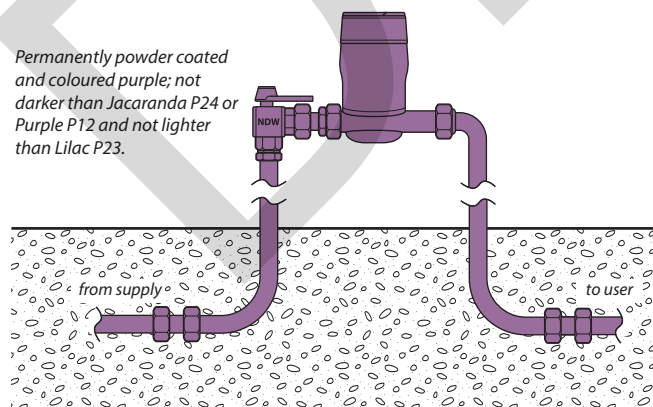


Figure 1 — Non-drinking water meter assembly

Requirements

The design, installation and construction of non-drinking water infrastructure and connections to a property must comply with:

Water meter assembly and associated fittings

- (i) Prior to installation, non-drinking water meters including pipes and fittings associated with the meter shall be powder coated purple colour.
- (ii) Powder coating shall be a purple colour not darker than Jacaranda P24 or Purple P12 and not lighter than P23 Lilac.
- (iii) The isolation valve associated with the non-drinking water meter shall be cast with the letters NDW. The isolating valve must be installed to clearly display the "NDW" marking.
- (iv) The non-drinking water meter inlet and outlet tail piece and connections and inlet isolating valve and meter connection shall have left hand thread connections and shall be powder coated purple colour (refer to Figure 1).
- (v) There shall be a minimum of 300mm separation between the drinking water and non-drinking water meters and the non-drinking water meter shall be located on the left-hand side of the drinking water meter, when facing the property from the street (refer to Figure 2).
- (vi) Where the drinking water meter and non-drinking water meter are placed in inground boxes, they shall be put in separate boxes. The content of all inground boxes shall be clearly and permanently identified on the box cover.
- (vii) Drinking water meters in dual reticulation areas shall have adequate backflow prevention.

Water infrastructure pipework

- (i) To avoid contamination in a dual reticulation service, the drinking water meter must be installed and commissioned prior to activating and commissioning the non-drinking water service. The non-drinking water isolation valve shall be locked off prior to commissioning.
- (ii) Non-drinking water pipework shall be purple colour and labelled as non-drinking water.
- (iii) Purple colour shall not be darker than Jacaranda P24 or Purple P12 and not lighter than P23 Lilac.
- (iv) Labelling and identification of non-drinking water pipework shall be in accordance with AS 1345.
- (v) Purple marking tape shall be installed above the buried non-drinking water pipework.
- (vi) There shall be a minimum 300 mm separation between the inground drinking water and non-drinking water pipework.

NOTE: For further information on separation distances from other utility services, refer to the relevant Standards or Codes of practice.

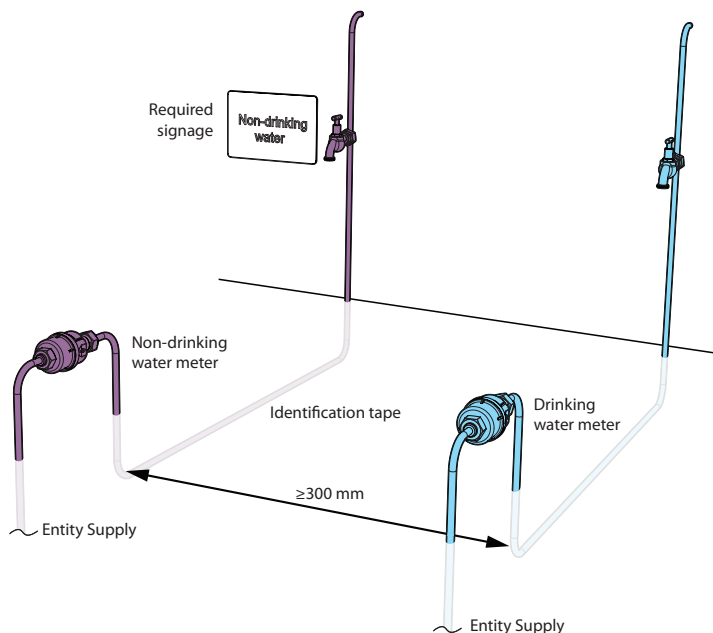


Figure 2 — Residential property with dual reticulation supplies

Inspection process

- (i) Each section of the drinking water and non-drinking water infrastructure installation shall be inspected and certified for compliance.
- (ii) A cross connection test in accordance with AS/NZS 3500.1 must be carried out by an appropriately licensed person in conjunction with the water industry entity who supplies the non-drinking water. This occurs when the non-drinking water service is activated. The results of this cross-connection test must be retained by the water industry entity.
- (iii) Upon activation of the non-drinking water supply at each property, a Total Dissolved Solids (TDS) test shall be carried out and recorded by the Water Industry Entity.
- (iv) Where work is carried out on either drinking water or non-drinking water infrastructure connected to the property, a TDS test shall be carried out by the Water Industry Entity.

The Technical Regulator may grant an exemption from this Standard, or specified provisions of this Standard (with or without conditions) as the Technical Regulator considers appropriate.

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