

SA Water Backflow Prevention Requirements for Water Connections

Effective 1st July 2006

20mm metered water connections

When applying for a new water connection the applicant/plumber must assess and provide information relating to the proposed use and potential hazard level as per AS/NZS3500 of the proposed on site activity. Eg either low, medium or high hazard.

SA Water's new 20mm drinking water meters contain a low hazard (containment) backflow prevention device (dual check valve) installed in the meter assembly.

20mm drinking water connections that pose a greater hazard rating than **low** will require a containment backflow protection device to be **supplied and installed by the plumber** at the property boundary adjacent to the SA Water meter. Testable containment backflow prevention devices are to be commissioned and annually tested by an accredited plumber who must within 7 days of completing the work forward the completed test form and Certificate of Compliance to SA Water.

Table F3 of AS/NZS 3500.1:2003 'Water Supply' may be used as reference

25mm and larger water metered connections

When applying for drinking water connections 25mm and larger the applicant/plumber must assess and provide information relating to the potential hazard level of the proposed on site activity. Eg either low, medium or high hazard.

Metered drinking water supplies greater than 20mm will require the plumber to supply and install the appropriate backflow protection device based on the potential hazard level of the proposed site activity. The backflow prevention device is to be situated at the property boundary adjacent the water meter. Testable backflow prevention devices are to be commissioned and annually tested by an accredited plumber who must forward the completed test form and Certificate of Compliance to SA Water.

Table F3 of AS/NZS 3500.1:2003 'Water Supply' may be used as reference.

NOTE: Isolation valves are to be located either side of a testable backflow prevention device. The isolation valves on DN 80mm and larger water services are to be gear activated valves.

Existing property water connection

Any introduction of another water source or change in the site activity on the property may alter the hazard level of the backflow prevention requirements. A reassessment of the level of protection will depend on the size of the water connection and the level of hazard as assessed by the plumber (refer to the above information).

Fire hydrants or sprinkler services

A single spring-loaded check valve shall be provided in the pipe work system within 3 metres of the property boundary and adjacent to the point of connection with the Corporation's drinking water supply. There shall be no branches to other services prior to the spring loaded check valve.

Where there are two or more fire services interconnected within the property, the spring-loaded check valve shall be of an in-line testable type with certified resilient seated gear activated isolating valves installed either side of the check valve to permit maintenance and testing.

For further information call 7424 1350

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