

SA Water Backflow Prevention Requirements for Water Services

Effective 1st July 2006

20mm metered water connections

- When applying for new water connections the plumber must assess and provide information relating to the potential hazard level of the proposed on site activity. Eg either a low, medium or high hazard.
- SA Water will install on all new 20mm drinking water meters a **low hazard containment backflow prevention device (dual check valve) installed in the meter assembly.**
- 20mm drinking water connections that have a greater hazard rating than low will require the containment backflow protection device to be **supplied and installed by the plumber** at the property boundary adjacent to the water meter. Testable backflow prevention devices are to be commissioned and tested annually by an accredited plumber who must forward the completed 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 plumber must assess and provide information relating to the potential hazard level of the proposed on site activity. Eg either a 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 tested annually by an accredited plumber who must forward the completed Certificate of Compliance to SA Water.
Table F3 of AS/NZS 3500.1:2003 'Water Supply' may be used as reference.

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

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 above information)

Fire hydrants or sprinkler services

- A single spring-loaded check valve shall be provided in the pipework system within 3 metres of the property boundary and adjacent to the point of connection with the Corporation's 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.