

Unclassified



Water NZ Backflow Conference 2021

Taumata Arowai Backflow Rules



Unclassified

Draft Operational Compliance Rules Backflow Protection Rules

Water Supply Categories

3

1. On-demand Networked Drinking Water

- < 50 (Very Small Supplies)
- 50 – 500 (Small Supplies)
- >500 (Large Supplies)
- Varying Population Size Supplies

2. Trickle Feed Water

3. Self-supplied Building Drinking Water Supplies

4. Water Carrier

5. Planned Event Temporary Drinking Water

6. Community Drinking Water Stations/Water Carrier Supplies



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Structure of the Rules

Rule type codes

G = General rules

S = Source water rules

T = Treatment rules

D = Distribution rules

WC = Water Carrier Service Rules

PTE = Planned Temporary Event /Drinking Water Supplies Rules

Rules complexity levels

1 = simple *(currently Very Small Supplies Rules)*

2 = moderate *(currently Small Supplies Rules)*

3 = complex *(currently Large Supplies Rules)*



Structure of the Rules

Rules Modules

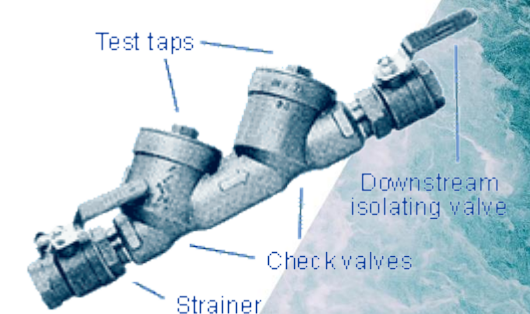
G		
S 1	T 1	D 1
S 2	T 2	D 2
S 3	T 3	D 3
WC	PTE	

Trickle Feed Water Supplies	
Any population size	$G + S2 + T2 + D2$

Backflow Rules

D1 backflow rules (very small supplies <50)

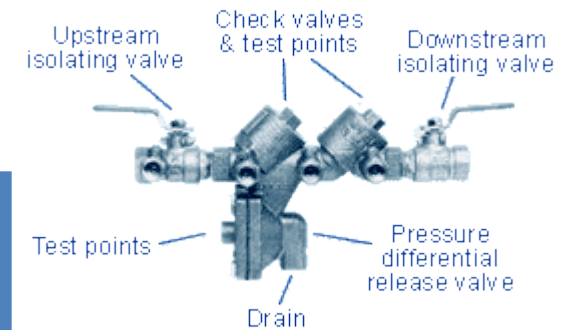
D1.2	A backflow prevention device must be fitted at any place in the distribution system where there is a high or moderate risk of backflow	Assurance	1 Year
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Backflow Rules

D2 backflow rules (small supplies 50-500)

D2.5	<p>An assessment of the distribution system for backflow risk must be performed annually by the water supplier and:</p> <ul style="list-style-type: none"> i. any connections, fittings or other places found to be at risk for backflow must be recorded along with the potential hazard(s). ii. any connections found to be at risk for backflow must have a suitable backflow prevention or containment device fitted. iii. all backflow prevention devices must be inspected and tested annually by a suitably trained and qualified person and remediated if found to be faulty. iv. any cross connections that are identified must be removed. 	Assurance	1 Year
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Backflow Rules

D3 backflow rules (large supplies >500)

D3.1	Drinking water suppliers must prepare and implement a backflow prevention programme to protect their network against the risk of backflow.	Assurance	1 year
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Backflow Rules

D3 backflow rules (large supplies >500)

D3.2	Periodic surveys of customer premises to determine medium and high-risk sites must be undertaken by the water supplier at a minimum of once every five years to assess the adequacy of backflow protection at the site.	Assurance	1 year
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Backflow Rules

D3 backflow rules (large supplies >500)

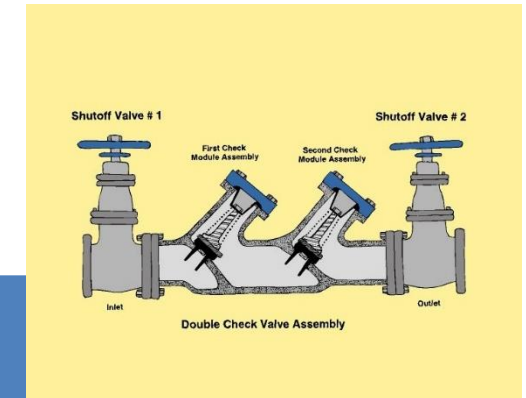
D3.3	<p>Where backflow requirements at customer premises are deemed inadequate, the water supplier must determine the type of backflow device required and ensure that it is installed in a timeframe commensurate with the risk and as soon as reasonably practicable.</p>	Assurance	1 year
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Backflow Rules

D3 backflow rules (large supplies >500)

D3.4	Testing of all testable backflow prevention devices must be undertaken, at least annually.	Assurance	1 year
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Backflow Rules

D3 backflow rules (large supplies >500)

D3.5	A water supplier must maintain a register of the location of all testable backflow protection devices, device types and the results of testing of all devices.	Assurance	1 year
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Backflow Rules

D3 backflow rules (large supplies >500)

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D3.6	<p>Access to a water network through use of a standpipe is not permitted except by Fire and Emergency New Zealand, other emergency services, the water supplier or authorised contractors to the water supplier where it is reasonably necessary to access the network for the operation of the drinking water supply.</p>	Assurance	1 year
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Questions

