

We work with others to protect the health of the people of Washington State by ensuring safe and reliable drinking water.



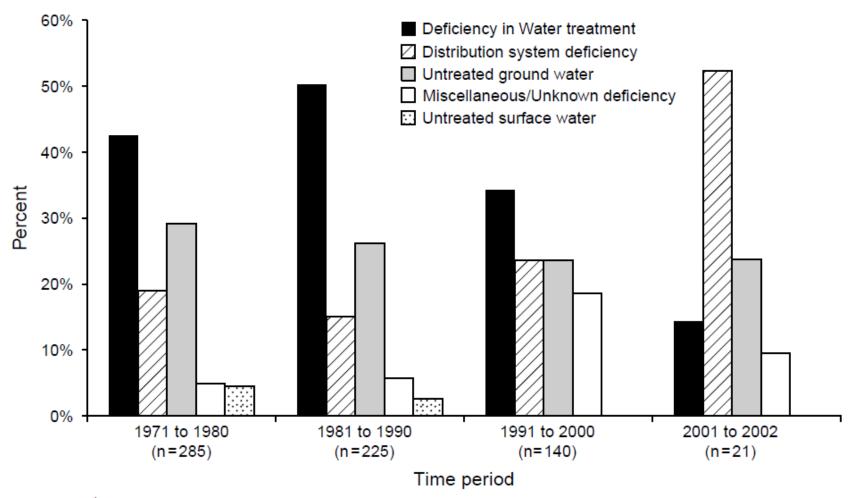
DOH Update The "Group" 2023

Washington State Department of Health Office of Drinking Water

Things to Talk about

- Arnica Briody in the DOH CCC Program!
- BAT Professional Growth Exams
 - Compensating for Disc Compression (1/1/2026)
 - Eliminate SVBA and reduce time to 45 Minutes(?)
- Exam Application Reviews Moving to WCS
- Remote Exam Proctoring coming soon
- Certification Renewals Coming in November

Waterborne Disease

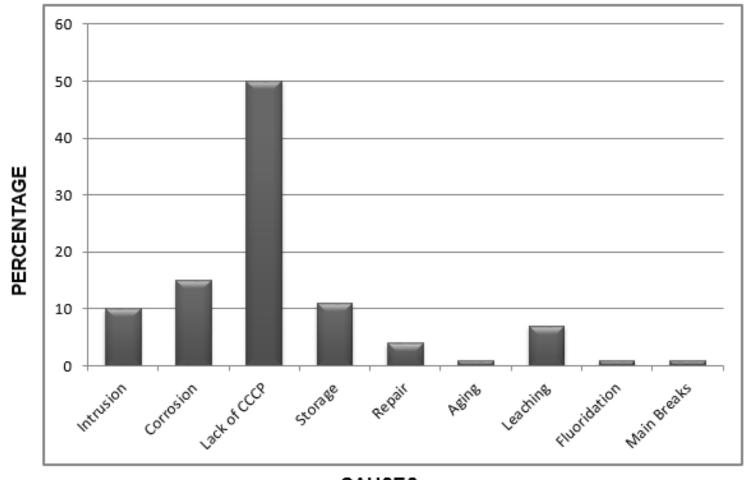


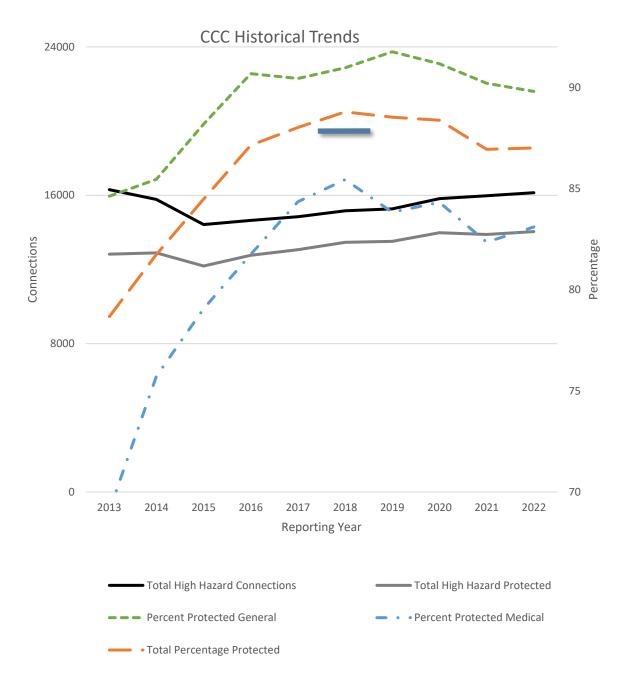
M. F. Craun et al. | Waterborne outbreaks reported in the United States

CCC Concerns

CAUSES OF DISTRIBUTION SYSTEM OUTBREAKS

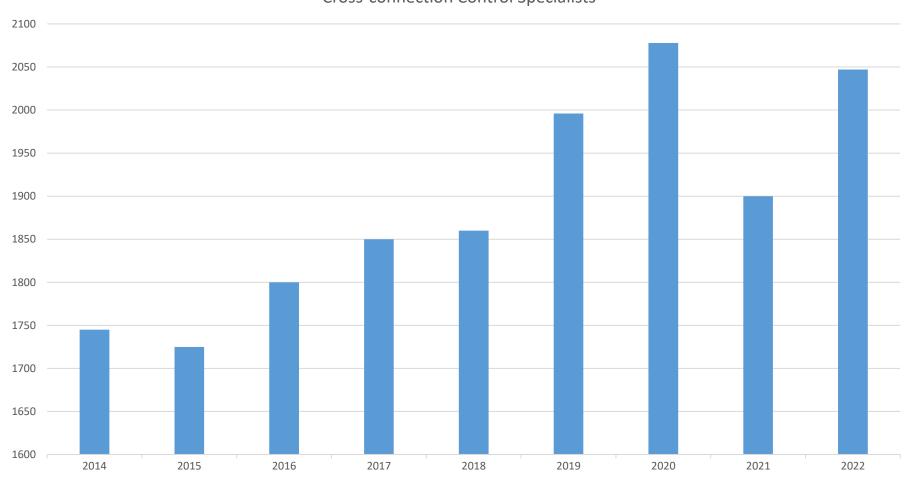
(1981-2002)





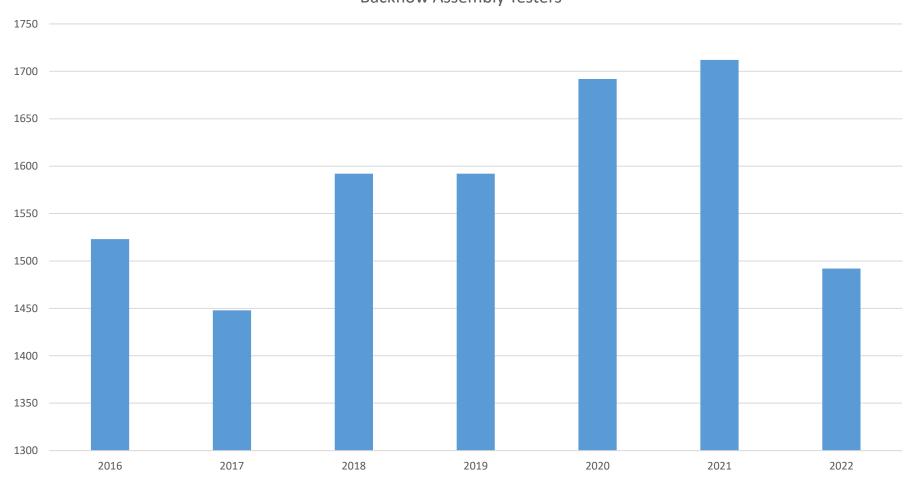
Cross-connection Control Specialist

Cross-connection Control Specialists



Backflow Assembly Testers

Backflow Assembly Testers



Backflow Assembly Testing Rates

Device	Total	% Tested	% Failed
Air Gap	678	61.0	1.0
RPBA	85,422	85.0	8.0
RPDA	838	81.6	7.3
DCVA	266,851	81.0	3.0
DCDA	16,071	84.5	3.3
PVBA	5,045	60.8	5.1
SVBA	453	77.5	10.4
AVB	1,059	10.9	0
2022 Total	376,417	76.11%	4.18%
2021 Total	382,412	80.10%	4.32%
2020 Total	368,176	81.62%	4.16%
2019 Total	351,849	85.66%	4.40%
2018 Total	332,884	85.31%	5.53%

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Irrigation



Sources of Supply for Irrigation

- Potable Water
- Reclaimed Water
- Surface Water
- Irrigation Well
- Gray Water
- Rainwater Catchment
- Stormwater
- Condenser Harvesting

Potable Water

- •WAC 246-290-490:
- The purveyor shall ensure that an approved air gap, RPBA, or RPDA is installed for premises isolation for service connections to premises posing a high health cross-connection hazard (Table 13)
- Agricultural (farms and dairies)
- Premises with separate irrigation systems using the purveyor's water supply and with chemical addition

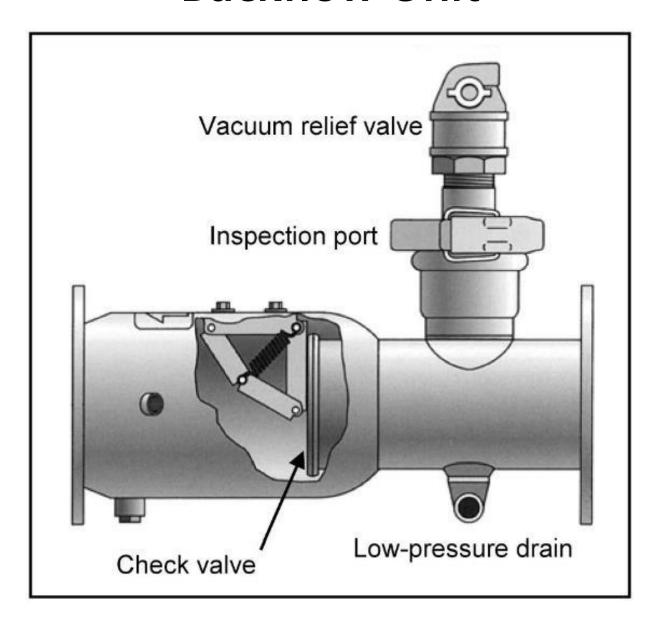
Reclaimed Water

- WAC 173-219-310:
- If the reclaimed water use on a property poses a high likelihood of contaminating the reclaimed water distribution system, the reclaimed water distributor must ensure installation of an approved backflow prevention assembly at the meter or property line.

Other Sources

- Chapter 16-202 WAC:
- Check valve/inspection port/vacuum relief/low pressure drain
- "Hydraulic Discontinuity" for non-pressurized
- Alternatives: waiver/barometric loop/EPA alternatives
- Injection systems: Check valve/vacuum relief
- Venturi injection: normally closed solenoid interlocked with pump

Backflow Unit



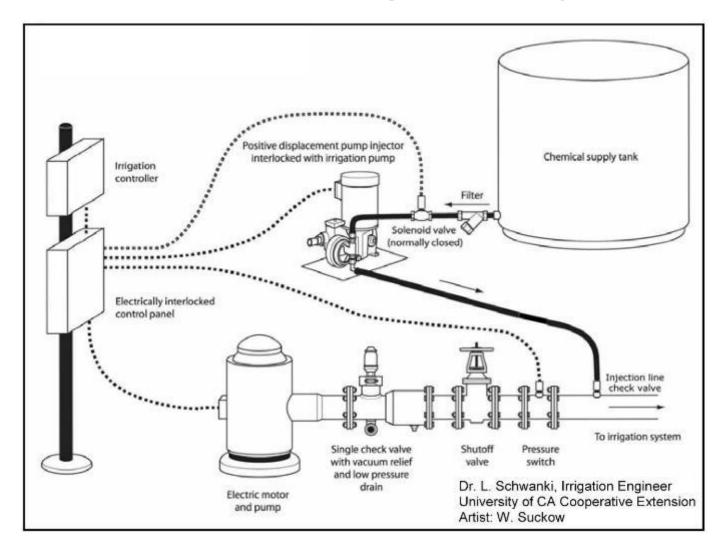
Chemigation Valve



Vacuum Relief Valve



Pressurized Irrigation System



Wafer Check Valve and Spool





Lock/out Tagout(?)



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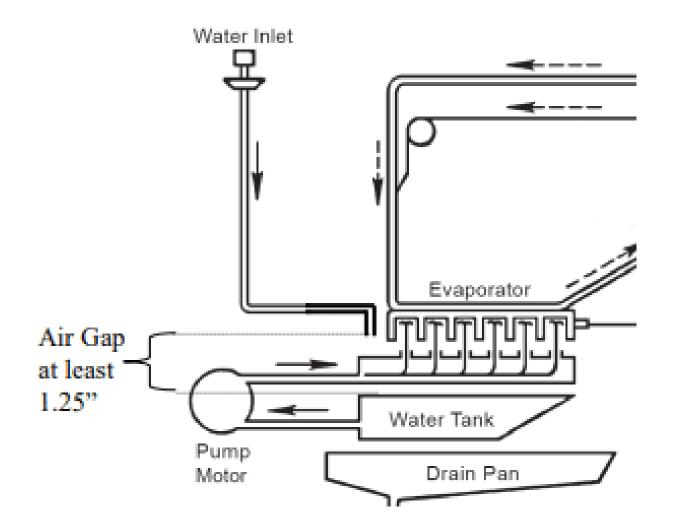
Ice Machines



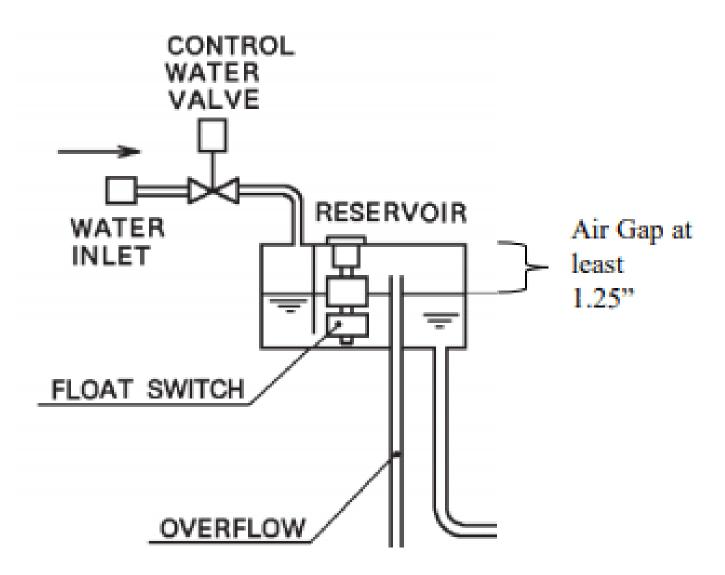
Ice Machines

- •NSF 12 (Section 5.28.1) states "Units intended to be connected to a water supply system under pressure shall have one of the following:
 - An air gap at least twice the diameter of the water supply inlet and not less than 1.0 in (25 mm): Or"
 - Several other "methods"
- Many larger ice machines will have treatment installed.

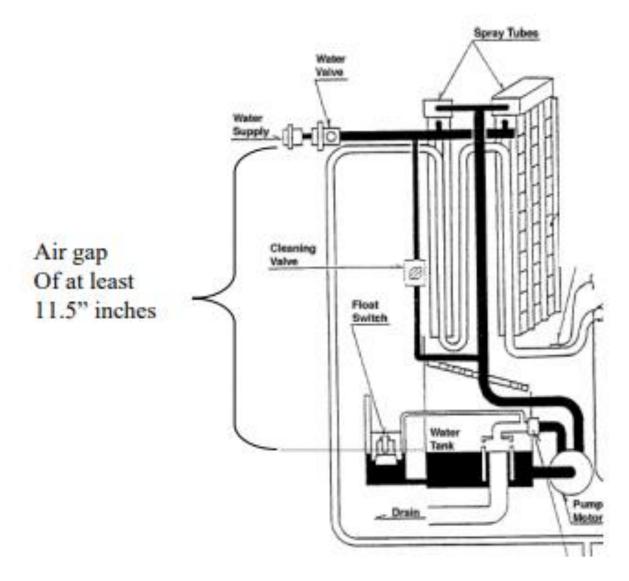
Ice Machines (good)



Ice Machines (bad)



Ice Machines (Bad)



Chemical Dispensers

• UPC 603.5.21 Chemical dispensers shall comply with ASSE 1055 or the water supply shall be protected by an approved backflow assembly or AVB

• ASSE 1055

- "When attached to a faucet that contains an internal ASSE 1001 or ASSE 1011 device, they must have a pressure bleed device as a part of that connection, and the faucet be shut off when not in use."
- Allows Elastomeric Gaps
- Does not have requirements for incoming water supply

TO INSTALLER

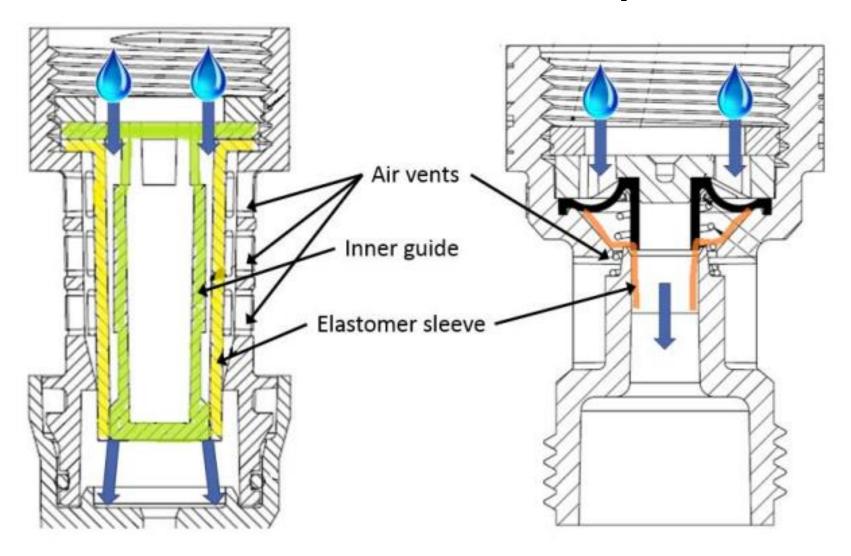
Johnson Diversey is not resporsible to any distributor or customer for compliance with local plumbing codes and regulations regarding proper installation of the unit or cross connections to public water supplies. Local plumbing regulations may require a particular backflow prevention device or a different method of installation. The customer must always verify that installation of the unit meets local plumbing regulations.

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Pressure Bleed Device



Flex/Elastomeric Gap

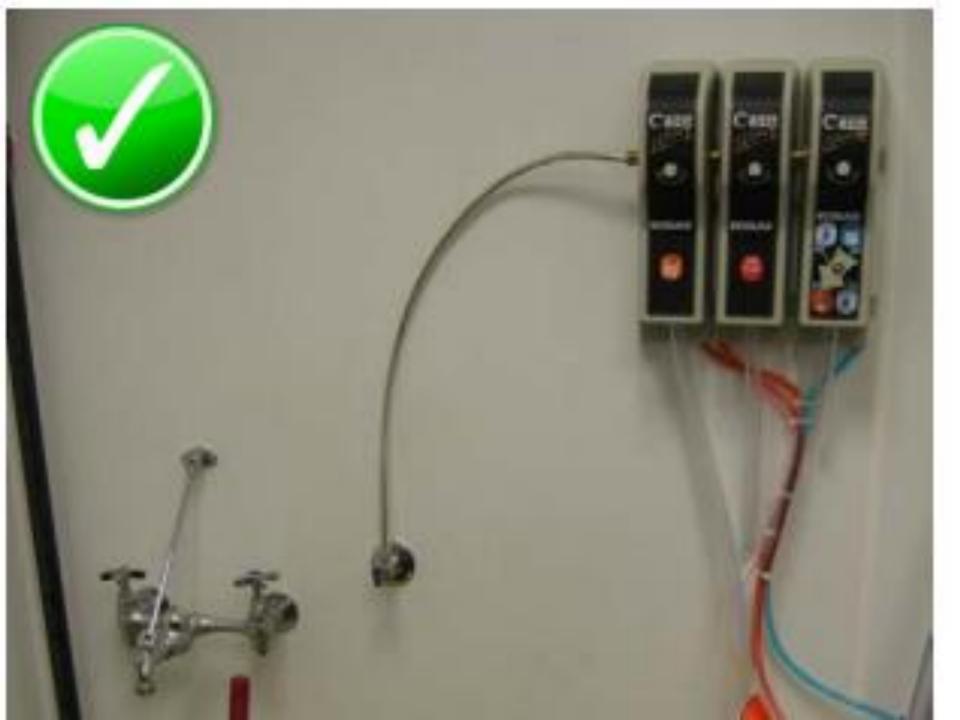














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