



Illinois Section of the American Water Works Association

BACKFLOW COMMITTEE

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Regulatory Standards for
Backflow Protection

Backflow Bulletin #3

Use this Bulletin in
conjunction with Bulletin #3.1

Required Backflow Protection	Fixture Type
ASME A112.1.2, ASME A112.1.3	Water Softener Drain
ASSE 1001, ASSE 1011, ASSE 1052	Laundry Tub/Mop Basin w hose threads
ASSE 1011, ASSE 1052	Indoor Hose Bibb(s)
ASSE 1011, ASSE 1019, ASSE 1052, ASSE 1053	Outdoor Hose Bibb(s)
ASSE 1012, 1015 -- No Chemicals; ASSE 1013** -- Chemicals	Boiler or similar
ASME A112.1.2**, ASSE 1012**	Humidifier
ASSE 1002	Toilet(s)
ASSE 1013	Lawn Irrigation
ASME A112.18.1, ASSE 1014	Hand Held Showers/Hose Sprayers
ASSE 1013**	Water Powered Sump Pump
ASME A112.1.2**, ASSE 1001**, ASSE 1013	Pool/Spa/Hot Tub/Water Feature/Pond/Fountain
ASME A112.18.1	Kitchen Faucet(s)
ASME A112.1.2**, ASSE 1012**	Non-Carbonated Beverage
ASSE 1032	Carbonated Beverage
ASME A112.1.2, ASME A112.1.3, ASSE 1001, ASSE 1013,	Developer...Photo, X-Ray, etc

***State Plumbing code may allow other backflow protection under certain hydraulic/pumping/hazard conditions*

1	ASME A112.1.2	Air Gap – The unobstructed vertical distance between the lowest point of any pipe, faucet or fixture and the FLOOD LEVEL RIM of the receptor onto which it is discharging.
2	ASME A112.1.3	Air Gap Fittings – for use with plumbing fixtures and appliances.
3	ASME A112.18.1	Plumbing Supply Fittings.
4	ASSE 1001	Atmospheric Vacuum Breaker – Critical Level of AVB must be installed at least 6” above all downstream piping with NO valves downstream.
5	ASSE 1002*	Anti-Siphon Fill Valves (Ballcock) for Gravity Water Closet Flush Tanks.
6	ASSE 1011*	Hose Bibb Vacuum Breaker (for indoor use).
7	ASSE 1011*	Anti-Frost Hose Bibb Vacuum Breaker – For use on outdoor hose bibs where it could be exposed to freezing.
8	ASSE 1012	Vented Dual Check Valve – For supplies to <u>untreated</u> boilers with less than 15 psig steam or maximum water pressure of 30 psig, or other non-health hazard fixtures.
9	ASSE 1013	Reduced Pressure Principle Backflow Prevention Assembly – Requires annual testing
10	ASSE 1014	Double Check / Dual Check / Vacuum breaker for handheld showers. Low hazard Only.
11	ASSE 1015	Double Check Valve Backflow Prevention Assembly - Requires annual testing
12	ASSE 1019	Vacuum Breaker wall hydrants, freeze resistant automatic draining type.
13	ASSE 1020	Pressure Vacuum Breaker – Requires annual testing: This assembly is NOT allowed in Illinois
14	ASSE 1032	Carbonated Beverage Backflow Preventer Dual Check Valve.
15	ASSE 1052	Hose Connection Backflow Preventers.
16	ASSE 1053	Dual Check Backflow Preventer Wall Hydrant Freeze Resistant Type.

**These backflow preventers can be found at hardware stores. A local plumbing permit may be required for installation.*

ALWAYS CHECK WITH YOUR WATER UTILITY, INSPECTORS, AND CITY OR COUNTY STAFF FOR LOCAL REQUIREMENTS

This Bulletin has been provided as a service to all Illinois plumbers & testers, municipal employees, & water professionals. This is our interpretation of existing Illinois plumbing codes and IEPA regulations. Accuracy is critical. If you are a professional with questions or concerns over our interpretations, please contact us immediately