

COMPLIANCE REQUIREMENTS FOR ATMOSPHERIC VACUUM BREAKERS

An atmospheric vacuum breaker (AVB)⁺ is a mechanical device installed in a plumbing system to protect the water supply from contamination due to back-siphonage. AVBs are NOT designed to be under continuous pressure; as such, *Chapter 17.10 – Wichita/Sedgwick County Unified Building and Trade Code* of the Municipal Code of the City of Wichita, KS (hereafter, Code) prohibits any shutoff valve or faucet from being installed downstream of an AVB. **Chemical dispenser units, Y-connectors with shut-off valves, and hoses with spray nozzles attached directly to a hose bibb with an AVB violate the Code.**

Establishments currently not in compliance with the Code may become compliant by taking the following action(s):

Chemical Dispenser Units

- Chemical dispenser units need to be plumbed with a dedicated water supply line; **or**
- Connected to the hose bibb with a Pressure Indicating Tee⁺⁺; **or**
- The AVB needs to be replaced with a Pressure Vacuum Breaker (PVB)⁺⁺⁺ or a Spill-Resistant Vacuum Breaker (SVB)⁺⁺⁺.

Hoses with Spray Nozzles

- Hoses with spray nozzles need to be connected to the hose bibb with a Pressure Indicating Tee⁺⁺; **or**
- Disconnected immediately after use and not left permanently attached to the hose bibb. Quick connectors are allowed to be used; **or**
- The AVB needs to be replaced with a Pressure Vacuum Breaker (PVB)⁺⁺⁺ or a Spill-Resistant Vacuum Breaker (SVB)⁺⁺⁺.

⁺ A hose bibb vacuum breaker is a special type of AVB; compliance requirements listed here also apply to hose bibbs utilizing a hose bibb vacuum breaker.

⁺⁺ ASSE Standard 1055 allows for a hose connection to be installed on a faucet with an AVB if a pressure indicating tee is used. A pressure indicating tee prevents damage to any upstream backflow protection device which is not rated for continuous supply pressure. Pressure indicating tees are known across the industry by multiple names (pressure indicating tee, bleeder device, vented-tee, etc.).

⁺⁺⁺ PVBs and SVBs are designed to be under continuous pressure. Chapter 17.10 requires all PVBs and SVBs to be registered with the City of Wichita Cross Connection Control Program. PVBs/SVBs need annual testing and must be rebuilt every 5-years. Additionally, PVBs and SVBs shall be installed with the critical level at least 12 inches above all downstream piping and the flood level. PVBs should only be installed in locations where adequate drainage is provided and property damage as a result of spillage can be avoided. SVBs should be installed in locations where adequate drainage is provided and property damage as a result of spillage can be minimized. (See Chapter 17.10 for complete requirements.)

Purchasing a Pressure Indicating Tee

Pressure indicating tees are available through a variety of sources: plumbers, chemical suppliers, plumbing supply stores, restaurant supply stores, and direct from the manufacturer.

The list/photos below show pressure indicating tees currently approved for use by the City of Wichita. **This list and photos are being provided for informational purposes only and the endorsement of one brand over another is not specifically implied, nor should it be inferred.** Additional pressure indicating tees might be in production and offered for sale. If your establishment wishes to use a product not listed, please contact the City of Wichita at 316-268-8351 to speak with an inspector and obtain approval for use prior to purchase and/or installation.

- Manufacture: Ecolab (<http://www.ecolab.com/>)
Product: Side Kick, Part # 92018480
(also available at <http://www.sidekickdevice.com/>)
- Manufacturer: Johnson Diversey, 1-800-558-2332 (<http://www.diversey.com/>)
Product: Flo-Thru Kit (for mop sink), PMS # 412623, PBI # 930225
- Manufacturer: PBI Plan B, Inc. (<http://planbinc.com/>)
Product: Flow Through Kit, Item # 930225
(also available at <http://www.anything4restaurants.com/products/flow-thru-kit-178742.html>; <https://www.supplyworks.com/Sku/JWP930227-1>;
<http://iframe.acmepaper.specpage.com/ProductDetail/?productid=178742;>&
http://www.kranzsb.com/Products/FLOW-THRU-KIT_930225.aspx)
- Manufacturer: DEMA, 314-966-3533 (www.demaeng.com)
Product: Pressure Indicating Tee, Model # 68-6, 68-6-QD1, or 68-6-QD2,
Product: Water Diverter Valve, Model 591 (May be used with a standard tee to make a pressure indicating tee.), <http://www.demaeng.com/kitchen-food-service/sink-faucet-dispensing/591-water-diverter-valve/>
- Manufacture: Hydro (<http://hydrosystemsco.com/>)
Product: Vented-Tee, Model # 195, <http://hydrosystemsco.com/product/bleeder-t-device/>



Johnson Diversey
/ PBI Plan B Inc.



Hydro



Ecolab / Sidekick



DEMA