

City of Henderson Fire Safety Engineering Informational Bulletin

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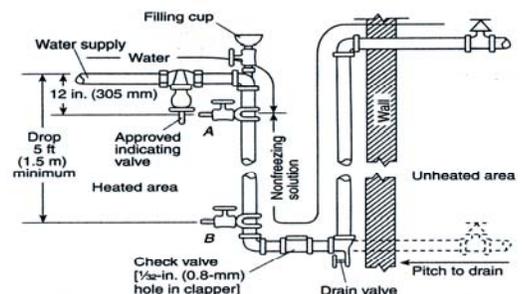
RPPA (REDUCED PRESSURE PRINCIPLE ASSEMBLY) DEVICES FOR ANTIFREEZE SYSTEMS

As of July 13, 2005, the City of Henderson no longer requires RPPA devices to be installed on antifreeze systems!



An appropriate backflow prevention device must still be provided at the point of connection to the public water system. The Utility Services Department will make this determination at the time the civil improvement plans are reviewed.

NFPA 13 Figure 7.5.3.1 shows an acceptable arrangement of supply piping and valves for an antifreeze loop utilizing a single check valve with a $\frac{1}{32}$ -inch hole in the clapper to allow for the expansion of the solution during a rise in temperature.



Notes:

1. Check valve shall be permitted to be omitted where sprinklers are below the level of valve A.
2. The $\frac{1}{32}$ in. (0.8 mm) hole in the check valve clapper is needed to allow for expansion of the solution during a temperature rise, thus preventing damage to sprinklers.

FIGURE 7.5.3.1 Arrangement of Supply Piping and Valves.

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