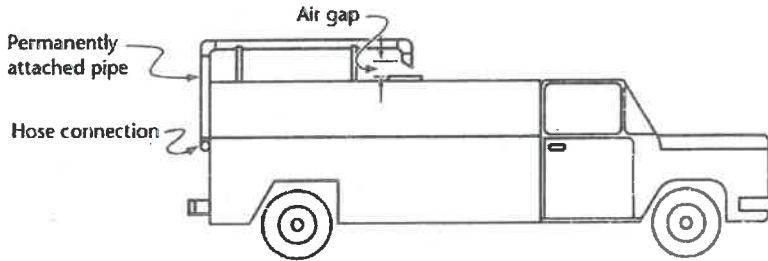


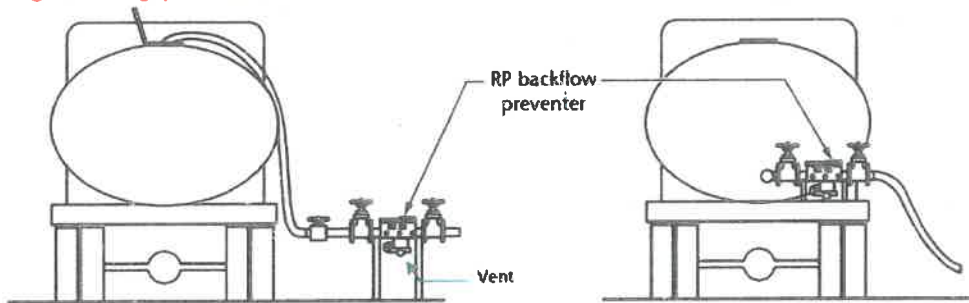
## Backflow Prevention for hydrant use

A reduced pressure principle (RP) backflow preventer or an air gap must be installed on all water-hauling equipment.



Source: CSA (2007) B64.10-07, p55

**Figure 1. Air gap - minimum 2 x diameter of fill pipe**



Source: CSA (2007) B64.10-07, p55.

**Figure 2. Reduced pressure (RP) mechanical backflow preventer**

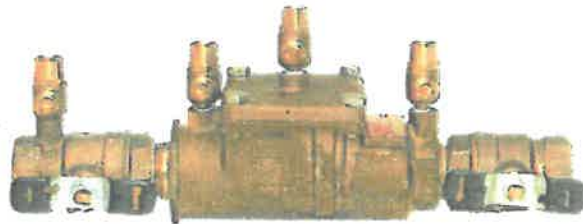
Lower security backflow preventers, including single or double check valves (CV, DCV) or vacuum breakers (AVB, PVB) are not acceptable substitutes.

### How to distinguish an RP from a DCV

Both are testable backflow preventers with 2 spring-loaded check valves, 2 shutoff ball valves and 4 test ports, same size, same materials. The RP has a reduced pressure zone in the centre that vents water if either of the check valves fail. So there should be a drain under an RP, but not under a double check.



**Figure 3. RP (note vent at bottom)**



**Figure 4. DCV (no vent at bottom)**

Images: [www.wattscanada.ca](http://www.wattscanada.ca)

**Note:** Double check valve assemblies (DCV) are accepted for the 2020 calendar year, but starting January 1<sup>st</sup> 2021 reduced pressure principle (RP) will be the only acceptable backflow device.