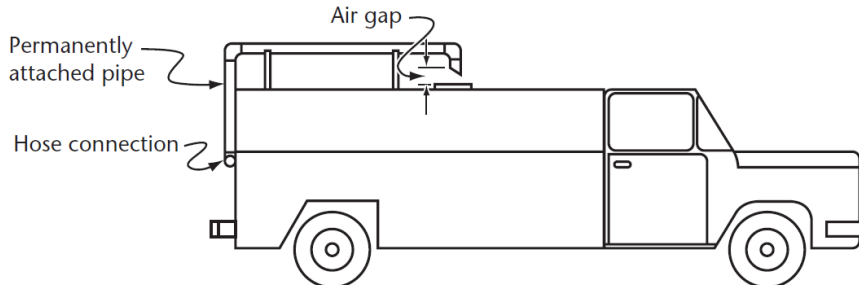


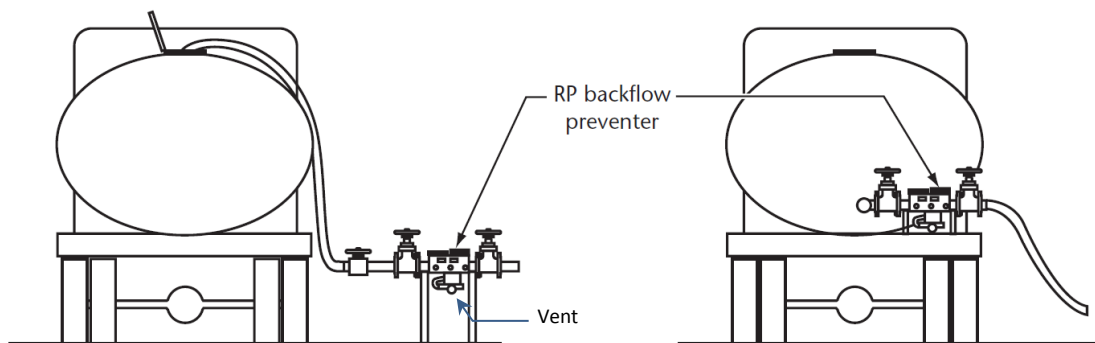
Backflow Prevention for Water Hauling Trucks

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



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

Figure 1. Air gap - minimum 2 × 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.



Images: www.wattscanada.ca

Figure 3. RP (note vent at bottom)



Figure 4. DCV (no vent at bottom)

Reference: Canadian Standards Association (CSA). 2007. *Selection and installation of backflow preventers*. Standard B64.10-07. (Current version is 2011)