

SUPADIVERTA - syphonic rainwater diverter

Water Tanks

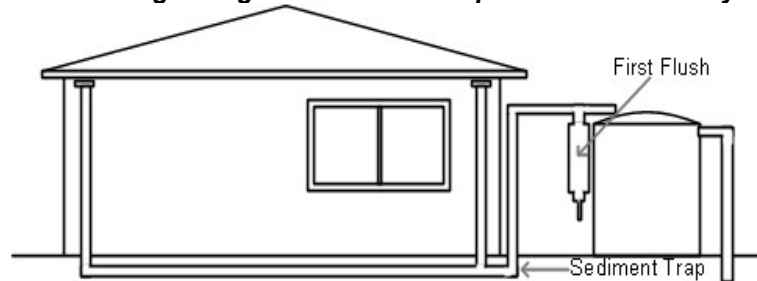
Most popular flush diverters have utilised a float that rises and seals a collection chamber after it fills, often an internal filter and a self emptying drip system fitted to the chamber's bottom outlet. This system in various guises has been around for a long time and variants are found in many countries. Other first flush diversion methods appear from time to time but the above method has found most favour for its apparent simplicity and low cost.

SHORTCOMINGS

The floats `job` is to prevent captured flush being extracted by a venturi effect but solid contaminants will wash over the float once the chamber is `sealed`. The chamber filters `job` is to prevent debris from blocking the dripper but the debris will also block the filter. Captured debris does not magically disappear and someone has to regularly empty the chamber and clean the filter.

THIS IS MESSY AND HIGH MAINTENANCE!

WARNING: First flush systems that incorporate a `wet system` to discharge point should be considered with extreme caution. Sediment transfer requires adequate velocity and without it, the system is at risk of becoming a stagnant sediment trap that will eventually block.



LEAF & DEBRIS SCREENS can be fitted to downpipes but these entail...

- Additional material and plumbing costs.
- Additional maintenance to regularly clean screens. If the unit is fitted with a mosquito proof fine mesh screen, the screens purpose is to prevent transfer of debris larger than its apertures. If the mesh blocks, the unit can overflow and the irony of this situation is that most debris is flushed from gutters during heavy rain! NOT GOOD!
- Solid bird droppings will be trapped and washed through the fine mesh.
- Fine debris can pass through the leaf screen filter and enter the first flush chamber. It is fine debris and not leaves that block the filter in first flush units!
- If a leaf fixes to the mesh or it is windy, a lot of water can end up on the ground.
- Climbing ladders to clean high and difficult positioned units has safety issues and what happens when you go on holidays?

These problems, inefficiencies, expenses and high maintenance chores are all avoided by installing a SUPADIVERTA.