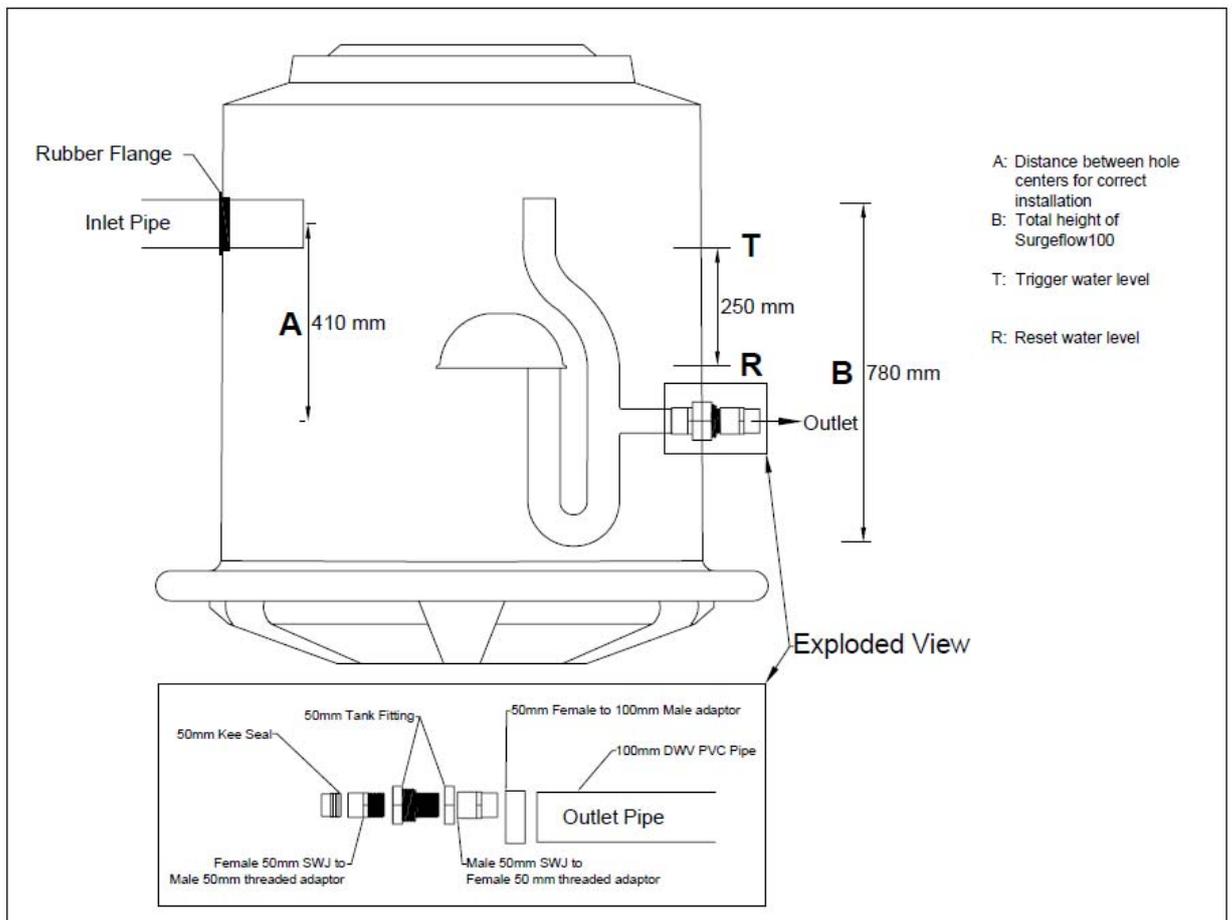


surge-flow300

Flow-with-nature dosing siphon

Installation instructions



Specifications

Height:	780 mm
Width:	420 mm
Required fall:	270 mm
Flow rate:	approx. 100L/min.
Dose (L):	$\{ [3.14 \times (\text{tank } \varnothing \text{ m}) / 2]^2 \} \times 0.27 \} \times 1000$

Operation

The primed **Surgeflow** triggers when the water level reaches **T** and resets automatically when the water level drops below the bell rim **R**.

Function

The **Surgeflow** is a passive device that creates a burst of water without using electricity or moving parts. This facilitates even distribution of water throughout an effluent reuse area, promoting efficiency and longevity of the system.

Maintenance

The **Surgeflow** should require no maintenance, however, if the siphon stops cycling (usually only if the system is left dry for an extended period of time) the **Surgeflow** will need to be inspected for blockages and re-primed (step 5, *Installation*).

Installation

1. **Poly sump:** Fit a 50 mm screw type tank fitting (with rubber flanges) to the dosing sump (if 50/100mm rubber sealed outlet not provided with tank).
Concrete sump: seal a minimal length of 50/100 mm PVC through the tank wall using approved sealant (e.g. plumbing epoxy).
2. Connect the 50 mm outlet pipe on the device to the tank fitting using a PVC screw fitting. For concrete tanks join the device directly to the 50 mm outlet pipe using PVC solvent glue (use a standard 50/100 mm eccentric reducer for 100 mm).
3. Connect the **Surgeflow** to the conveyance pipe as close to the tank penetration as practicable. Ensure the base rim of the bell is horizontal/level. Allow access to prime the trap/vent.
4. Optional: Support the **Surgeflow** by packing 20 mm aggregate or similar around the base of the trap.
5. Prime the trap by pouring water down the vent till it begins discharging from the outlet. The **Surgeflow** is now set and will operate automatically.
6. The **Surgeflow** must discharge into a 100 mm sewer pipe. 100 mm pipe should be at least 4 m in length (where practicable) before reducing or splitting flow.

NOTE: if influent is primary-treated septic tank effluent, ensure an outlet filter has been installed; debris may foul the device.



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