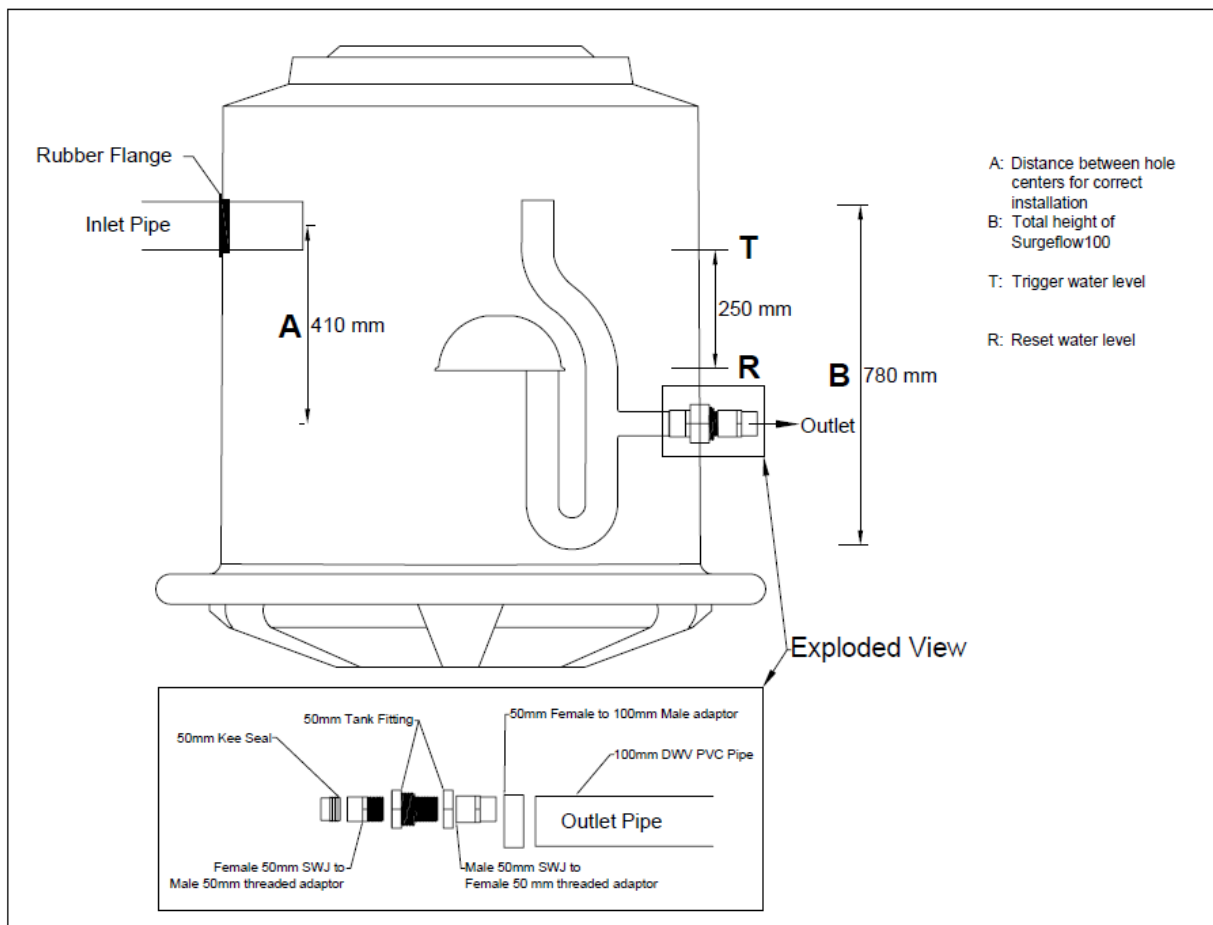


# surge-flow

Flow-with-nature dosing siphon  
[www.surgeflow.com.au](http://www.surgeflow.com.au)

## Installation instructions



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## Flow-with-nature dosing siphon

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### 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 **Surge-flow** 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 **Surge-flow** 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 **Surge-flow** 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 **Surge-flow** 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 **Surge-flow** is now set and will operate automatically.
- 6.** The **Surge-flow** 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.