

# Smart ATO nano G2

## SATO-276D



### ◆ Installation

1. [How to adjust the holder width?](#)
2. [Can I fix the controller on a rimmed tank/sump?](#)
3. [How to adjust the sensor cable length?](#)
4. [Where should I place the sensor?](#)
5. [How to install the prefilter properly?](#)
6. [Is Smart ATO nano G2 compatible with 1/4" RO Tubing?](#)
7. [What is the Anti-Siphon Pressure Height?](#)
8. [What is the benefit of using Diaphragm Pump?](#)

### ◆ Trouble Shooting

1. [How to replace the diaphragm pump?](#)
2. [Why does the water keep dripping after pump has stopped?](#)
3. [Why does the pump stop when the red LED light is flashing?](#)
4. [Does Smart ATO nano G2 have a failsafe mechanism?](#)
5. [What can QST do for you?](#)



# Smart ATO nano G2 SATO-276D



## ➤ How to adjust the holder width?

Open the controller cover first, then press the holder button to adjust the width.

The holder is suitable for tank thickness 3-10 mm.



[Back to Top](#)



# Smart ATO nano G2 SATO-276D



## ➤ Can I fix the controller on a rimmed tank/sump?

Yes.

The controller can be fixed on rimmed / rimless tank.



[Back to Top](#)



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## ➤ How to adjust the sensor cable length?

Open the cover first, then pull out the cable or push the cable back to the controller body to adjust the cable length.



[Back to Top](#)



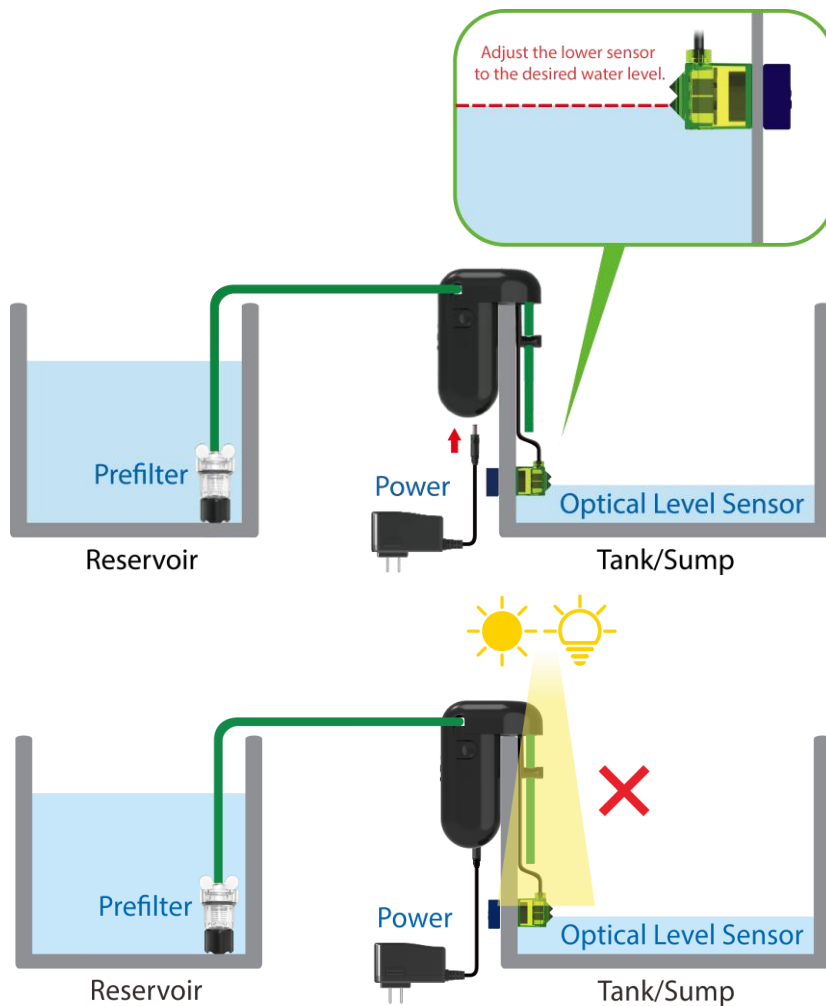
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## ➤ Where should I place the sensor?

Place the sensor to the water level you desired.

**\*Please note :** Set the sensor away from direct infrared or sun light to avoid malfunctions.



[Back to Top](#)



# Smart ATO nano G2

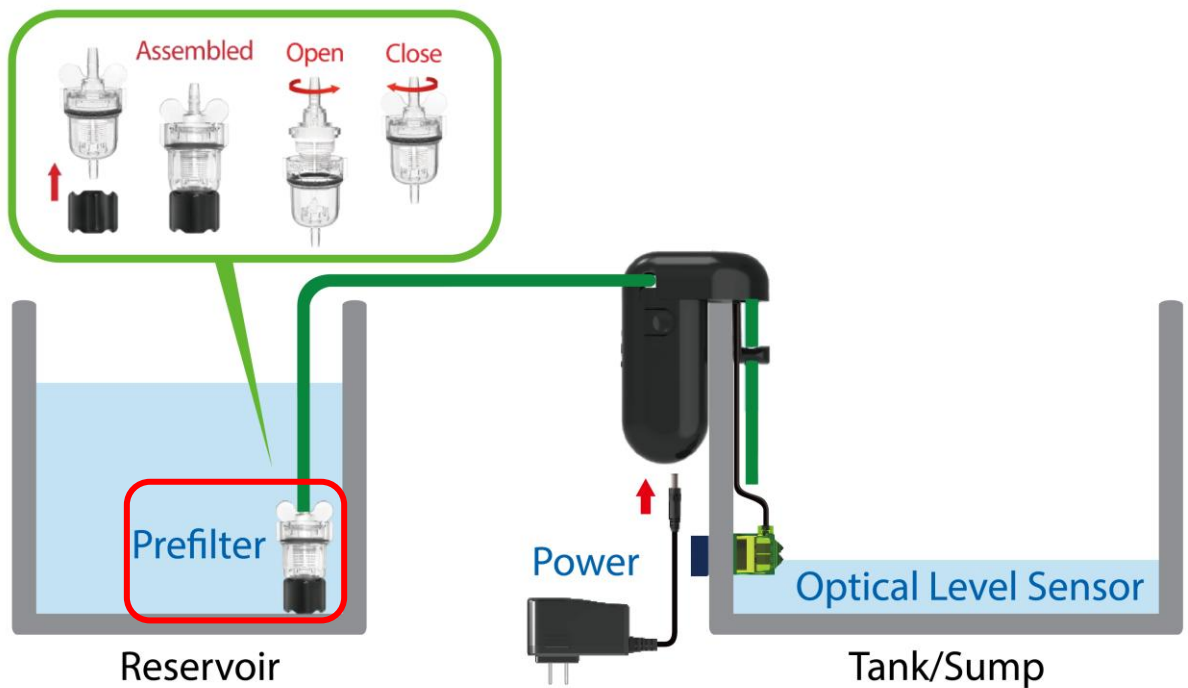
## SATO-276D



### ➤ How to install the prefilter properly?

Please install the prefilter before the diaphragm pump to protect it from clogged and damaged.

**\*Please note: Set the sensors away from direct infrared light or sun light to avoid malfunctions.**



[Back to Top](#)



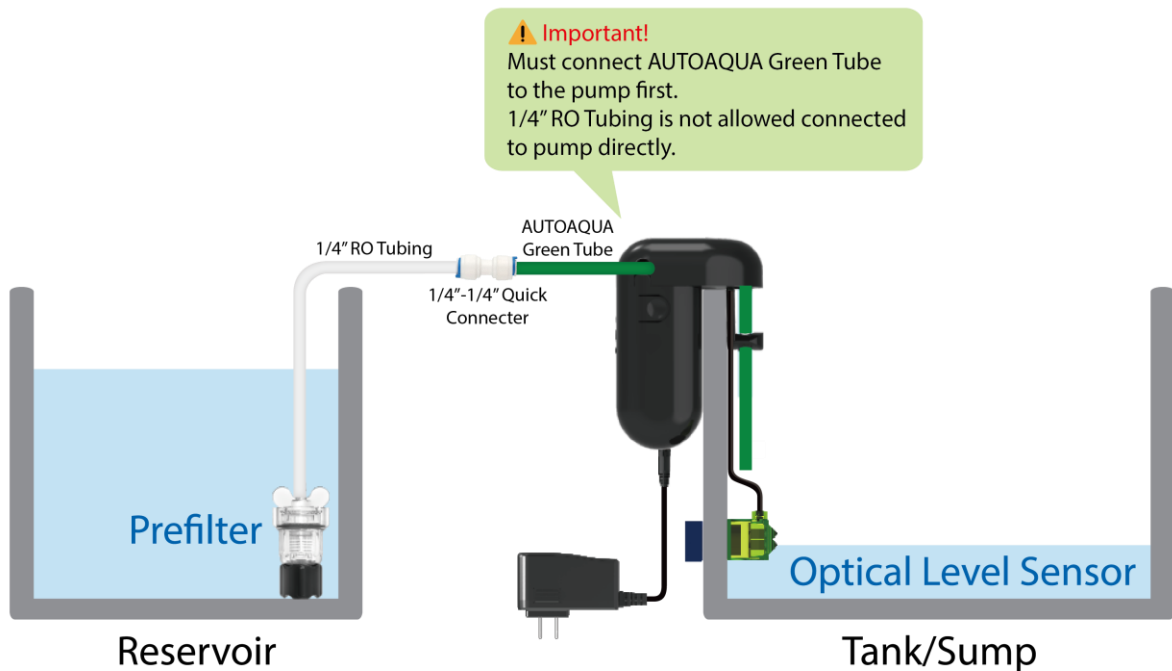
# Smart ATO nano G2 SATO-276D



## ➤ Is Smart ATO nano G2 compatible with 1/4" RO Tubing?

If you would like to use 1/4" RO tubing, please note that use AUTOAQUA tubing to connect the pump first\*, then using 1/4"-1/4" Quick Connector to link AUTOAQUA tubing and 1/4" RO tubing. Please check the diagram below.

**\*Directly connecting 1/4" RO tubing to the pump may cause damage to the pump.**



[Back to Top](#)



# Smart ATO nano G2 SATO-276D



## ➤ What is the Anti-Siphon Pressure Height?

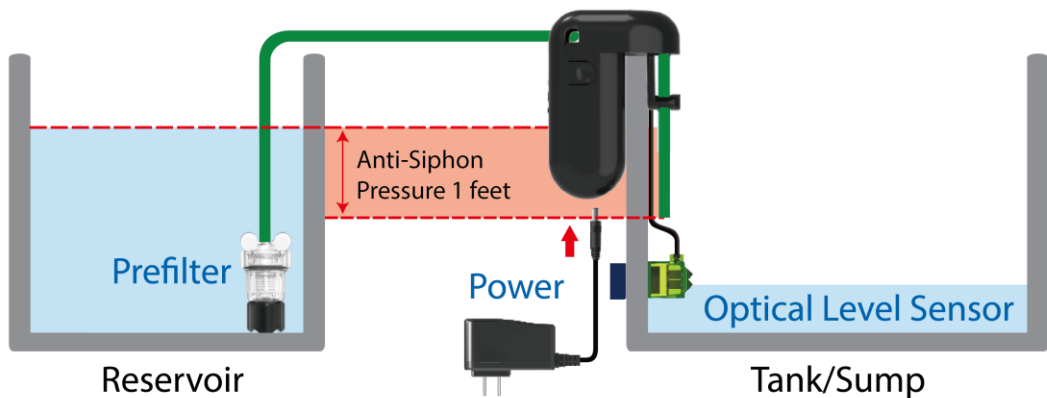
As Diaphragm pump stops, if the water level in the reservoir is much higher than the end of the outlet tube, this may cause forward siphoning.

To avoid this, the vertical distance between the outlet tube and the water level in the reservoir must be less than 1 foot (30 cm). Additionally, **the outlet tube must ALWAYS remain above the water surface.**

If you desired higher anti-siphon pressure, you can purchase AUTOAQUA Anti-Siphon Valve additionally. One anti-siphon valve can stop around 2 feet (60 cm) anti-siphon pressure.



**\*Directly connecting 1/4" RO tubing to the pump may cause damage to the pump.**



[Back to Top](#)





# Smart ATO nano G2 SATO-276D



## ➤ What is the benefit of using Diaphragm Pump?

- Add water smooth & consistent flow to reach the desired water level accurately.
- Lessen the pressure to aquarium ecosystem.
- No wire in the tank for tidy aquarium.



[Back to Top](#)



# Smart ATO nano G2 SATO-276D



## ➤ How to replace the diaphragm pump?

- Step 1 : Open the top cover of controller.



- Step 2 : Press the **release button** on the side and open the cover.



- Step 3 : Disassemble the pump and replace to a new pump.



- Step 4 : Put the cover back.



- Step 5 : Put the top cover back.



[Back to Top](#)



# Smart ATO nano G2 SATO-276D

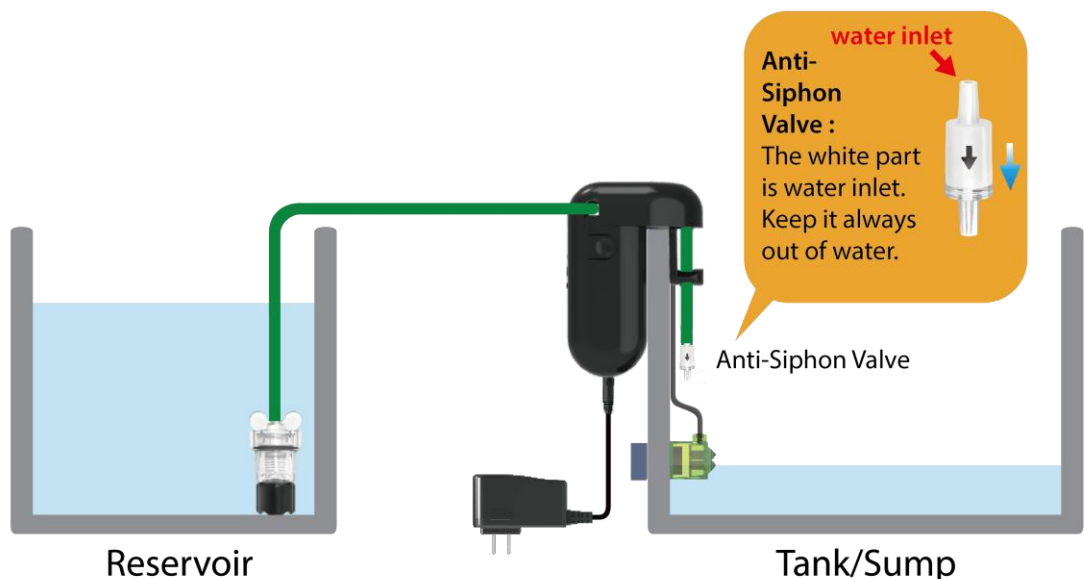


## ➤ Why does the water keep dripping after pump has stopped?

Water is siphoning from the reservoir into the tank (or sump). Please lower the water level in the corresponding reservoir, or raise the outlet tube.

If neither is an option, you can purchase AUTOAQUA Anti-Siphon Valve(s) additionally and connect it to the outlet tube(s). One anti-siphon valve can stop around 2 feet (60 cm) antisiphon pressure.

**\*Please note: One water tube connects 2 pcs Anti-Siphon Valve in maximum for proper water flow performance.**



[Back to Top](#)



# Smart ATO nano G2 SATO-276D



## ➤ Why does the pump stop when the red LED light is flashing?

It is QST function.

QST will alarm as water refill time is 6 times longer than the first refill time.

If you would like to increase the QST tolerance, please unplug and plug back again to **clear QST memory** and **extend the first time ATO refill time**.

[Back to Top](#)



# Smart ATO nano G2

## SATO-276D



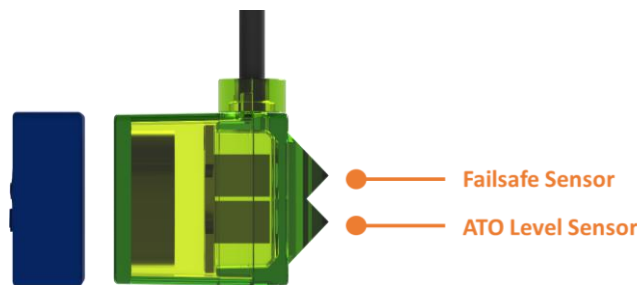
### ➤ Does Smart ATO nano G2 have a failsafe mechanism?

Yes.

Smart ATO nano G2 is equipped with a **failsafe sensor** and **Quick Security Technology (QST)** to ensure continuous and safe operation.

- The failsafe sensor: It serves as the main sensor to keep the Smart ATO nano G2 working properly.
- QST: It will memorize the first refilling time. When a refilling time exceeds six times the duration of the initial refill\*, the system will shut down, preventing water overfilling and the pump running dry.

**\*No security time control for the first refilling.**



[Back to Top](#)



# Smart ATO nano G2 SATO-276D



## ➤ What can QST do for you?

With AUTOAQUA QST function, it can detect scenarios below without extra setting.

- **Empty Reservoir**

If the reservoir contains little or no water in the reservoir, the QST will be triggered, causing the system to shut down and stop the pump.

- **Pump Failure**

When the pump fails and water replenishment stops, the QST will be triggered, as ATO lasts six times longer than the initial time.

- **Sensor Failure**

If both main and fail-safe sensors fail, the QST will activate to stop the refilling process.

- **Other Device Failure**

If the 3 scenarios above are not the cause, your aquarium equipment (e.g., return pump, skimmer, etc.) might be in an unstable condition.

Please check the other equipment in your aquarium system.

[Back to Top](#)

