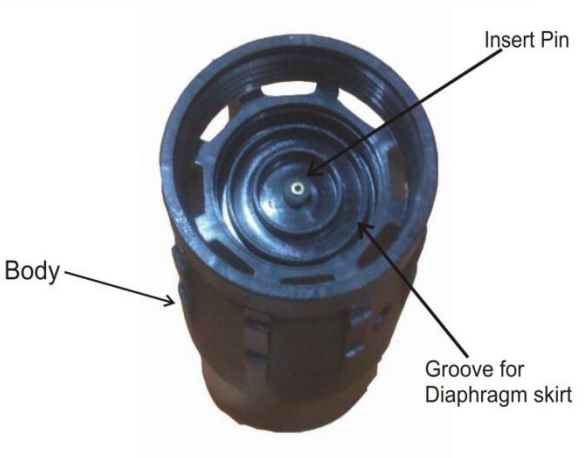
Know your Vari-Flot



Troubleshooting / FAQ

1) How does the Vari-Flot work?

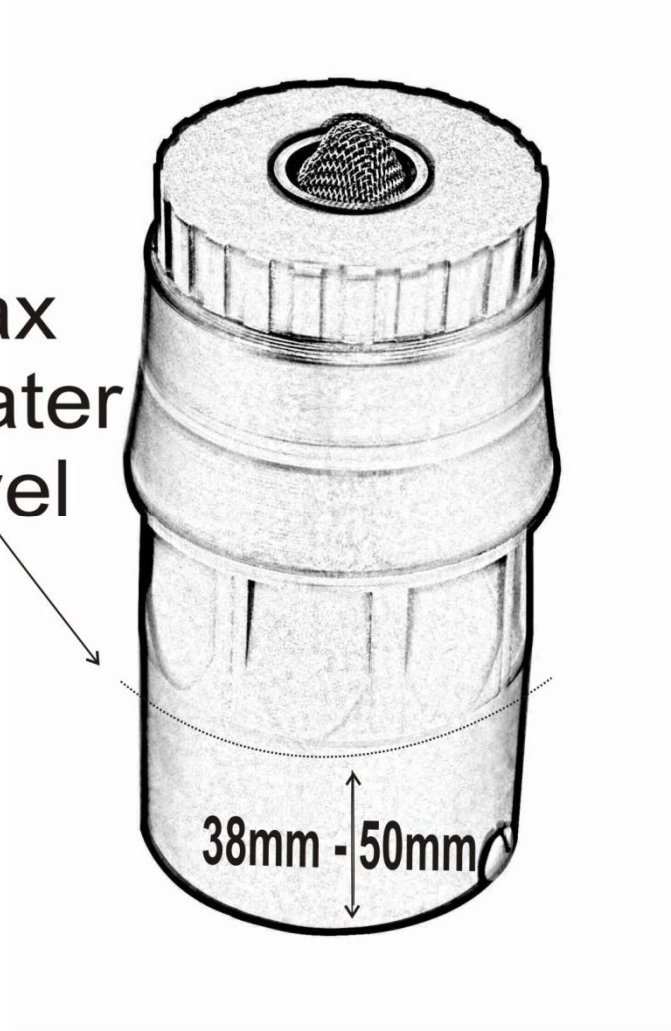
The Vari-flot operates using a flot and a control diaphragm chamber. When hooked up to a water source the Vari-flot will allow water to flow through it until the water reaches the Vari-flot. As the water level rises it causes the float inside of the Vari-flot to rise allowing the diaphragm chamber to fill and close the Vari-flot.

2) How do I install my Vari-Flot?

I. Do not use pipe compound.
II. Use plumber's Teflon tape on threads of water supply pipe.
III. Screw Vari-Flot on to water supply pipe; hand tighten only.
IV. Turn water source on full volume.
V. Make sure Vari-flot is mounted stably – it will not work if it is not secure.
VI. The Vari-flot cannot be submerged.
VII. The Vari-flot must be mounted vertically.

3) Where will the Vari-flot shut off?

The Vari-flot will shut of about 38mm - 50mm up from the bottom of the Vari-flot depending on pressure (the higher your water pressure the higher up on the Vari-flot the water will shut off).



NOTE: there will be a short delay in shut-off the first time the Vari-flot is used while the control chamber fills with water.

4) Will the Vari-Flot work in liquids other than water?

The Vari-Flot is designed to be used in water and has been tested for water only. However it could be used for other non aggressive liquids. Though many customers have used in different products we cannot guarantee on liquids other than water.We will only warranty Vari-flot that have been used in water.

A. How to check & clean Hole of ‘Stem’?

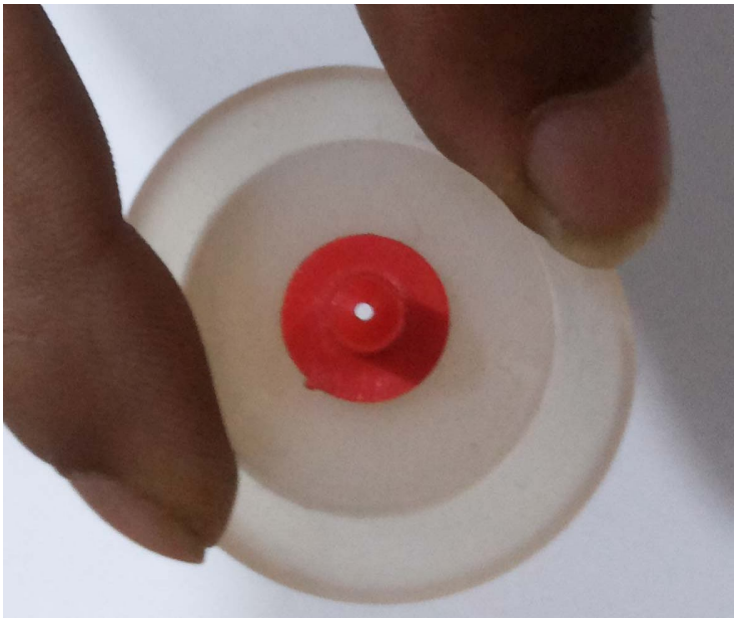
- Remove cap from body by turning it anti clock wise.

- Pull out the sleeve which is loosely fitted above diaphragm.

- Pull out the Diaphragm - stem - stem cover assembly.

- Pull out the stem cover from stem, which is slightly press fitted.

- To check the hole through the stem hold the Diaphragm - stem assembly against light.



- If hole is obstructed with dirt etc. flush in running tap water or if needed use a small pin needle, or the ends of a paper ‘U’ clip taking care that the hole is not enlarged, as it may affect functioning.

Or

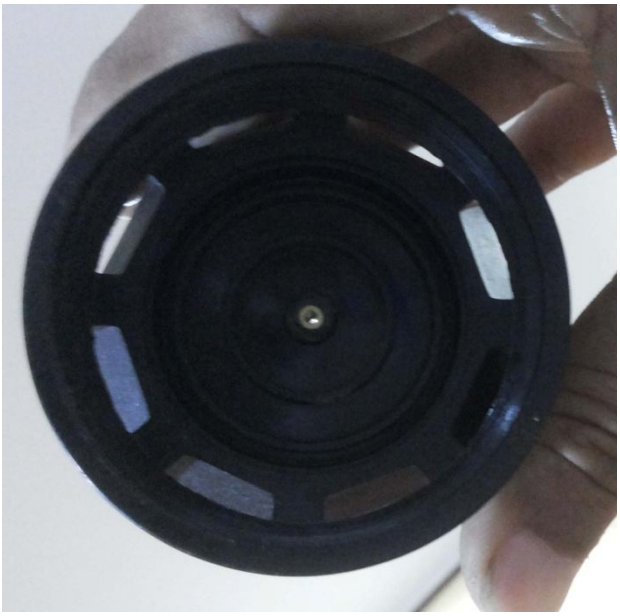
- After checking/cleaning the parts same can be refitted in reverse order.

B. How to check and Clean the hole through the insert pin of the body?

- Hold the Body upside down and push out the stopper using thumb or screw driver.

-Turn the body upright so that the float will fall out (as it is loosely held inside the body by the stopper).

- Hold the body against light to see the hole through the insert pin.



- Check if same is free and clear.

- If hole is obstructed with dirt etc. flush it out using running tap water or if needed use a small pin, needle or the ends of a paper ‘U’ clip taking care that the hole is not enlarged as it may affect functioning of the Vari-Flot.

- After checking / cleaning the parts same can be refitted in reverse order.

- Insert the float into the body. Rotate it so that the slot on Float is aligned with hole in the body where stopper has to be fitted.

- Press fit the stopper into the hole.

5) Why won't my Vari-Flot shut off?

* The Vari-flot needs to be cleaned periodically depending on the cleanliness of the water source.

* Wash the Vari-flot and Vari-flot parts with fresh water. Dirt, rust, sediment and sand can build up on the Vari-flot and cause it to malfunction.

* The Vari-flot has two very important holes that run through the center of it. If either of these holes becomes clogged, the Vari-flot will not shut off. To clean these holes see A&B above.

* Check to make sure that you have adequate flow. The Vari-Flot has to have more than a trickle of water coming to it in order to get it to shut off. If you have less than 0.6kg/cm2 of water pressure, your Vari-Flot may not be getting enough flow to it to make the valve seal.

* Make sure that your water source is turned on full volume.

* Make sure that all parts are installed correctly.

* The filter screen is installed from the top of the cap down.

* The diaphragm “skirt” sits in the groves of the body of the Vari-Flot. (See sketch showing parts of Vari-Flot)

* The sleeve sits on top of the diaphragm, with the flat side up.

* The float has free movement in the body of the Vari-Flot (using your fingers, gently push the float up and let it drop back down - it should move up and down freely about 3mm to 4mm.

* Do not glue any parts together.

* Use Teflon tape only - do not use other products to install valve.

* If you are using a ½’’ Vari Flot, try removing the filter screen. Due to the fact that there is less area in the ½’’ Vari-Flot between the cap and the diaphragm than there is in the 1’’ Vari-flot, the screen on the ½’’ sometimes will restrict the movement of the diaphragm. Not using a screen will not affect of the Vari-flot. The screen is only needed to help filter out debris. If your water source is clean, it is not needed.

6) Why won't my Vari-flot open?

1. The insert pin in the body of the Vari-flot may be clogged. Follow steps explained in B.

2. If there isn't enough water flow coming to the Vari-flot, your water source must be turned on full volume. We recommend having at least 0.6kg/cm2 of pressure.

7) How do I repair my Vari-Flot?

If none of the following suggestions work, a repair kit will be needed.

* Check the washer, which is located on the top of the float, for any indentations or tears. If it looks dented or torn, try turning it over. You can do this by gently slipping it out of its base using a small needle. Then flip it over (reverse it) and push it gently back in using your finger.

DO NOT glue, hammer or alter the valve or valve parts in any way. Doing any of this will nullify your warranty.

8) **After I install the Vari-flot, what do I do if I hear water hammer or other noise in my line?**

* The water hammer can be caused by too much pressure build-up behind the Vari-flot. Under high-pressure conditions, installing a pressure reducing valve before the Vari-Flot will reduce the problem.

* Follow procedures outlined in A&B each to clean all parts especially the holes of stem and insert pin.