

Product information and installation

This float valve consists of a Weighted float with enough buoyancy to remain suspended within a trough or tank containing water. This float is used to open the valve when the descending water level reached the Open level. The non-weighted Lock float is used to close the valve when the ascending water level reached the Close level. The Open level is fully adjustable through a 0 to 3 metre range via the Adjustment rope.

1. Installation

Remove the Lock nut and install the Valve body through a suitable hole in the tank or trough. Ensure that the Valve body and Valve stem are installed in a vertical position. The Valve stem must be suspended at the back of the Float arm as presented in Figure 1. The tank or trough wall can be clamped between Lock nut and Valve body or between the Lock nut and water supply connection.

2. Functioning

Float valve opening: As the water level is receding, the Adjustment rope will tighten and the weight of the Weighted float will pull the Lock float and Float arm down wards to the position of Figure 2. In this position the Float valve is open and the Lock spring will have snapped to keep the Float valve open, as the Lock spring is now positioned below the Float arm Pivot point.

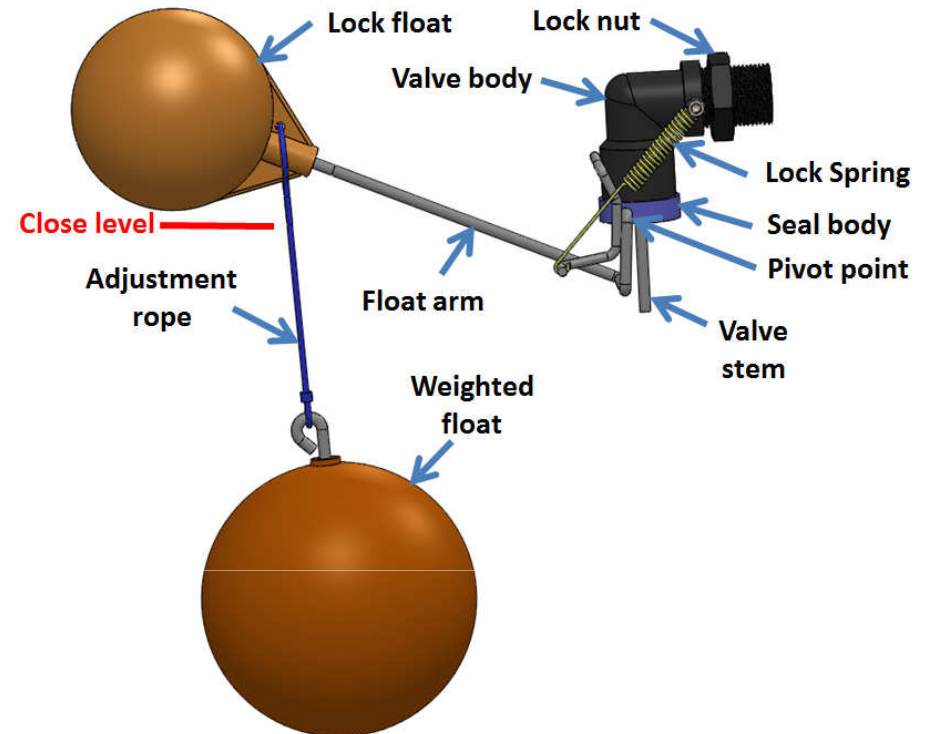


Figure 1: Float valve Closed position.

Float valve closing: As the water level is rising, the Adjustment rope will slacken, but the Float valve will remain open under the tension force of the Lock spring positioned below the Pivot point.

When the rising water level reaches the Lock float, the Lock float buoyancy will move the Float arm upwards and the Lock spring will snap to the position above the Pivot point as presented in Figure 1. The tension force of the Lock spring will keep the Float valve open until the Adjustment rope tensions again.

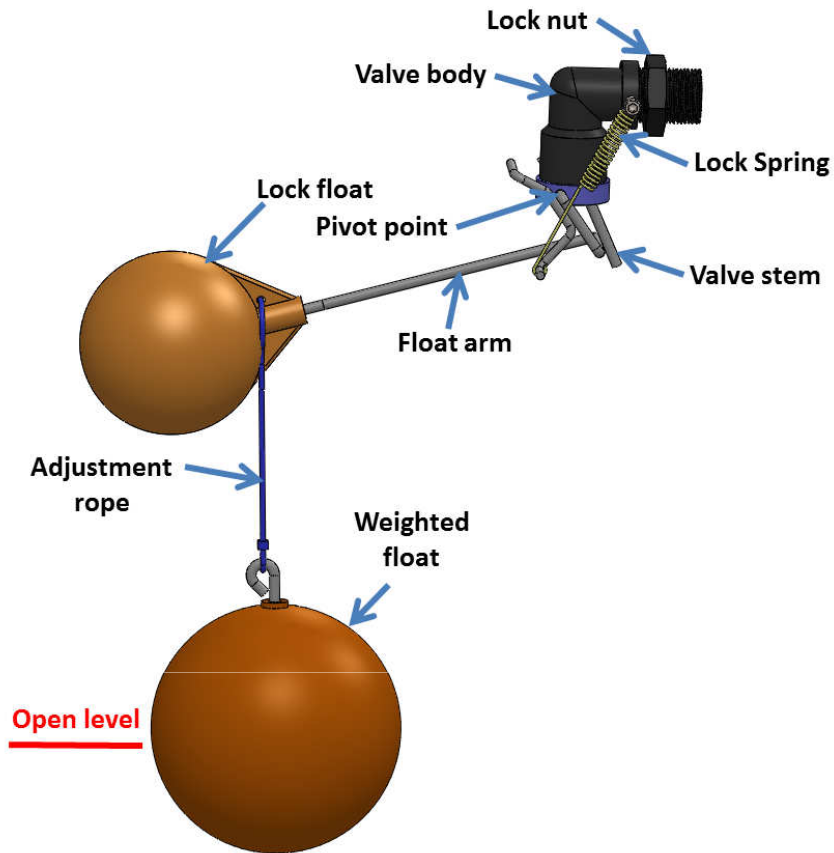


Figure 2: Float valve Open position.

3. Dual level advantage

The dual level system is ideal for applications where for example an electric float switch is not viable due to large distances and cable requirements. Applications include pump fed tanks, where the frequent start stop cycle of the pump is prevented.

4. Product information

Operating pressure: 0 to 10 Bar.

Flow rate: 21 L/min @ 0.5 Bar, 48 L/min @ 2 Bar

Open level adjustment: 0 to 3 meter

5. Unique features

- The float valve seals effectively under very low as well as high pressures (maximum 10 Bar).
- The structure of the valve and swirl action of the water reduces the risk of blockage and avoids build-up of clogging material such as sand or organic material.
- Calcium build-up is prevented.
- Durable material:
 - Metal parts:** stainless steel 304
 - Plastic parts:** ABS plastic
 - Seal:** Neoprene
- In case the Weighted float is damaged, the valve will close, and no water will leak out.
- The Valve body and Seal body are both made from ABS plastic and screwed as well as glue welded together.
- No tools are required for adjustment.

Warning! Although great care is taken during manufacturing, the product can be damaged, if used under sub-zero conditions.

Produk inligting en installering

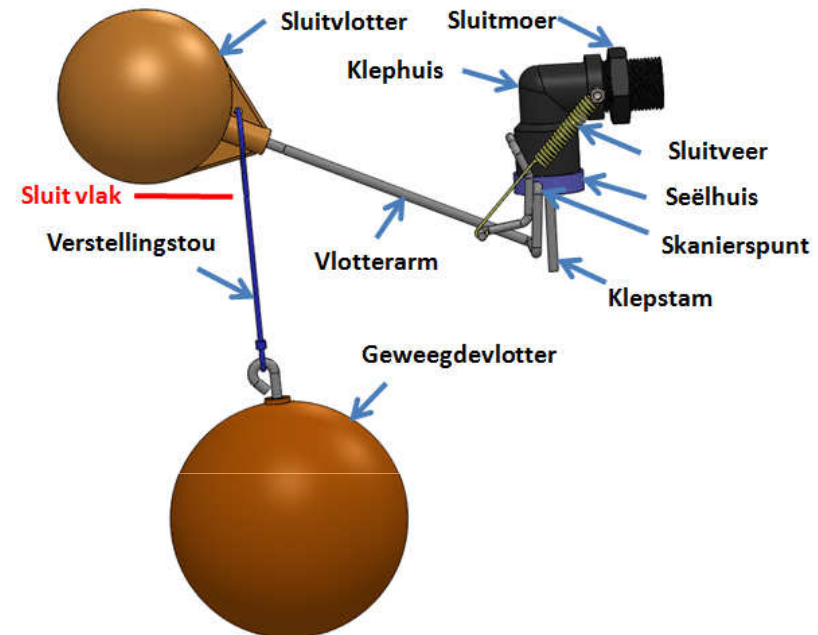
Die vlotterklep bestaan uit 'n Geweegdevlotter (bal) met net genoeg dryfbaarheid sodat dit nie sink nie binne 'n krip of tenk. Hierdie vlotter word gebruik om die klep oop te maak wanneer die watervlak daal en die Oopmaak vlak bereik. Die ongeweege Sluitvlotter word gebruik om die klep toe te maak wanneer die stygende watervlak die Sluitvlak bereik. Die Oopmaak vlak is te volle verstelbaar vanaf 0 to 3 meter deur middle van die Verstellingstou.

1. Installerings

Verwyder die Sluitmoer en instaleer die Klephuis deur 'n toepaslike gat in die krip of tenk. Maak seker dat die Klephuis en Klepstam in 'n vertikale posisie is. Die Klepstam moet agter die Vlotterarm hang soos aangedui in Figuur 1. Die krip of tenk wand kan tussen die Klephuis en Sluitmoer of tussen die Sluitmoer en water toevoer konneksie geklamp word.

2. Funksionering

Vlotterklep Ontsluit: Soos die watervlak daal, sal die Verstellingstou styf trek en die gewig van die Geweegdevlotter sal die Sluitvlotter en die Vlotterarm afwaarts trek tot in die posisie van Figuur 2. In hierdie posisie is die Vlotterklep oop en die Sluitveer sal afwaarts spring om die Vlotterklep oop te hou, die Sluitveer is nou in posisie benede die Vlotterarm Skanierpunt soos in Figuur 2.



Figuur 1: Vlotterklep Geslote posisie

Vlotterklep Gesluit: Soos die watervlak styg, sal die Verstellingstou verslap, maar die Vlotterklep sal oop bly onder die spanningskrag van die Sluitveer onder die Skanierpunt. Wanneer die stygende watervlak die Sluitvlotter bereik sal die Sluitvlotter se dryfkrag die Vlotterarm opwaarts druk en die Sluitveer sal opwaarts spring tot die posisie bo die Skanierpunt soos geïllustreer in Figuur 1. Die spanningskrag van die Sluitveer sal die Vlotterklep toe hou totdat die Verstellingstou trekkrag ervaar.

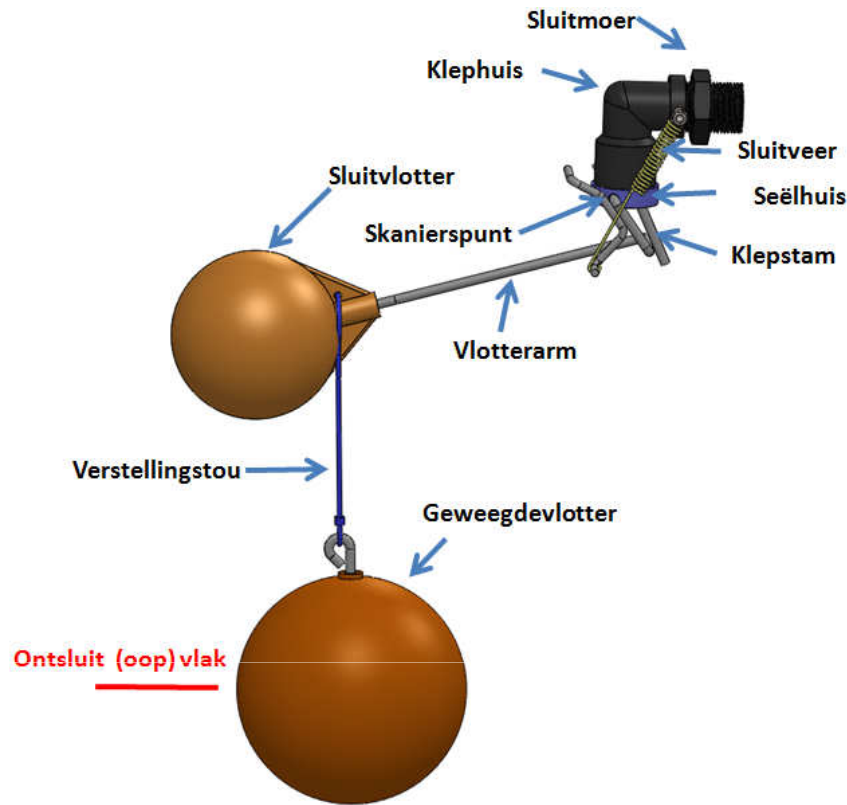


Figure 2: Vlotterklep Oop (ontsluit) posisie

3. Tweeledige watervlak voordeel

Die tweeledige watervlak sisteem is ideaal vir toepassings soos byvoorbeeld waar 'n elektriese vlotterskakelaar (float switch) nie moonlike is nie, weens die groot afstand en al die kabel benodighede betrokke. Toepassings sluit in pomp gevoerde water tenks, waar die gereelde stop en begin siklus van die pomp baie verminder word.

4. Produk inligting

Bedryfsdruk: 0 to 10 Bar.

Vloeitempo: 21 L/min @ 0.5 Bar, 48 L/min @ 2 Bar

Oopmaak vlak verstelling: 0 tot 3 meter

5. Unieke eienskappe

- Die Vlotterklep sluit effektief onder baie lae sowel as hoë druk (maximum 10 Bar).
- Die groot klep-opening waardeur die water vloei, skakel verstopping uit en met die kolk-aksie van die water spoel onsuiverhede, soos sand en organiese materiaal, maklik uit.
- Kalsium opbou word verhinder.
- Duursaam materiaal :
 - Metaal dele:** vleklose staal 304
 - Plastiek dele:** ABS plastiek
 - Seël:** Neoprene
- Indien die Geweegdevlotter beskadig sou word, sal die klep sluit en dus sal geen water uitlek en dus vermorsing verhoed.
- Die klephuis en Seëlhuis is albei van ABS-plastiek gemaak en vas geskroef sowel as gom vasgesweis.
- Geen toerusting word benodig vir verstelling.

Waarskuwing! Alhoewel alle sorg gedurende vervaardiging geneem word, kan die produk beskadig word wanneer die klep in vriestoestande funksioneer.