

EDUAN Buddy

Dual level float valve

Patent pending

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

2. Trough configuration

Figure 1 presents the configuration for troughs. In this configuration the Float connector is hooked on the threaded Float arm and clamped between the Retainer and Rope washer by the tightened Wing nut B as presented in Figure 2. In this configuration the water level cannot be adjusted. In this configuration the Lock float and arm and spring may be removed by removing Wing nut A and then replacing the Float arm and Wing nut A.

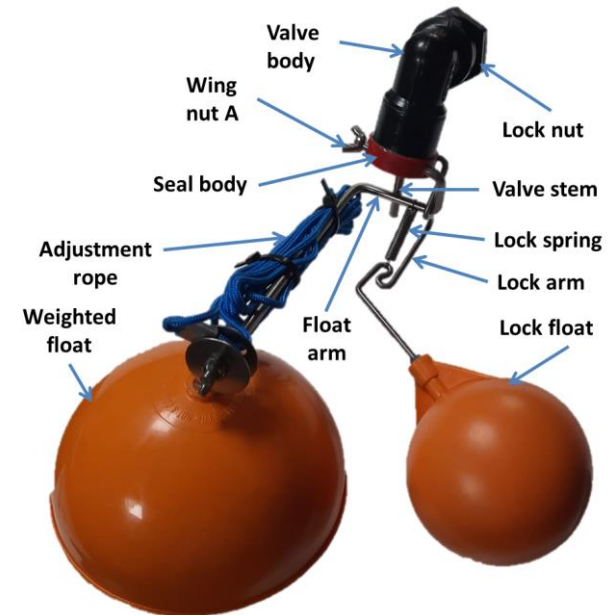


Figure 1: Trough configuration

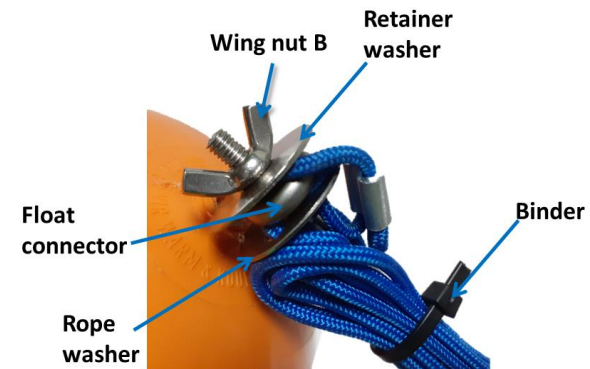


Figure 2: Float attachment details

5. Tank configuration

This configuration allows for the adjustment of the water Open level, for example in tanks and dams and can be configured as follows as presented in Figure 3.

- Remove Wing nut B and Retainer washer and then remove the Float connector.
- Pull the desired Rope length from the Adjustment rope from underneath the Binders. The Rope length determines the adjusted Open level.
- Replace the Retainer washer and tighten Wing nut B.

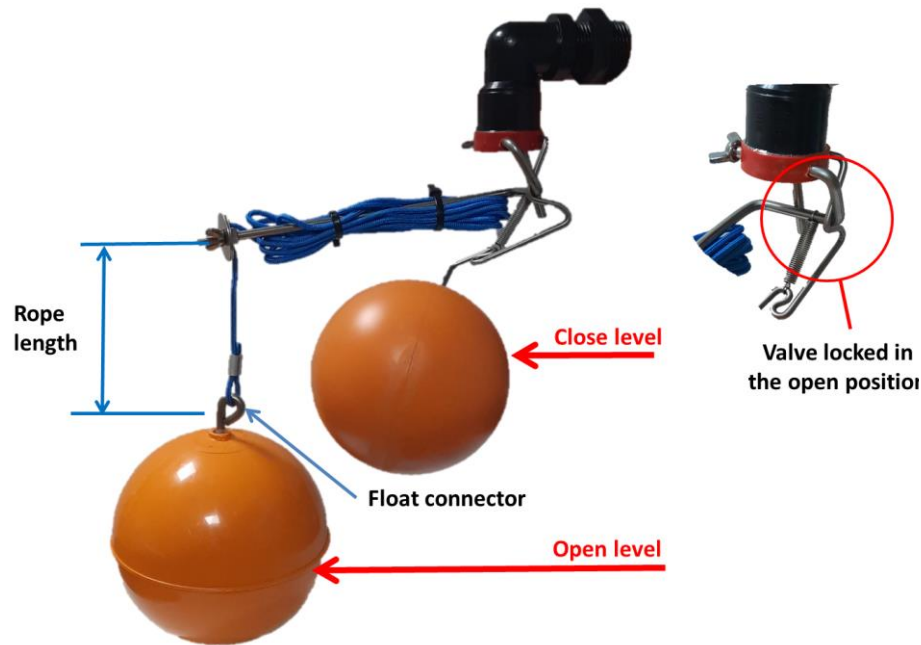


Figure 3: Tank configuration

Figure 3 presents the valve in the locked open position. As the water level rises and reaches the Close level the Lock float will release the lock and the valve will close gradually.

3. 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

4. Unique features

- The product has a long operational life and closes gradually to prevent a water hammer effect.
- 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 and configuration

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

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Tweeledige vlak vlotterklep

Patent hangende

Produk inligting en installering

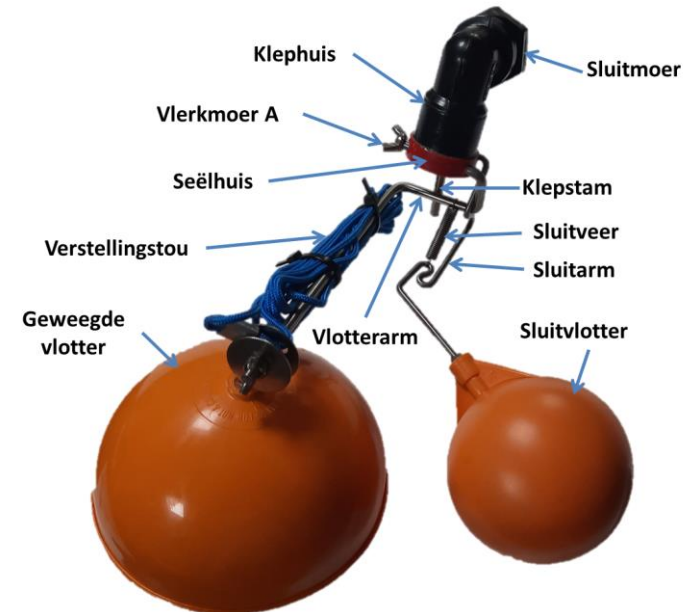
Die vlotterklep bestaan uit 'n Geweegde vlotter (bal) met net genoeg dryfbaarheid sodat dit nie sink nie binne 'n krip of tenk. Hierdie vlotter word gebruik om die klep oop te maak wanneer die watervlak daal en die Oopmaak vlak bereik. Die ongeweegde Sluitvlotter word gebruik om die klep toe te maak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

1. Installerings

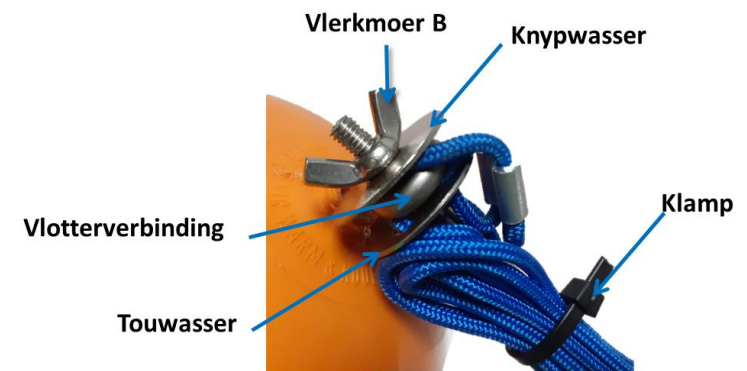
Verwyder die Sluitmoer en installeer die Klephuis deur 'n toepaslike gat in die krip of tenk. Maak seker dat die Klephuis en Klepstam in 'n vertikale posisie is. Die Klepstam moet agter die Vlotterarm hang. Die krip of tenk wand kan tussen die Klephuis en Sluitmoer of tussen die Sluitmoer en water toevoer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

2. Krip konfigurasie

Figuur 1 verteenwoordig die konfigurasie vir krippe. In hierdie konfigurasie is die Vlotterverbinding vasgemaak oor die Vlotterarm met skroefdraad en tussen die Knyp-en Touwatter deur middel van die Vlerkmoer B soos vertoon in Figuur 2. In hierdie konfigurasie kan die watervlak nie verstel word nie. In hierdie konfigurasie kan die Sluitvlotter arm en veer verwyder word deur eers die Vlerkmoer A te verwyder en dan slegs die Vlotterarm en Vlerkmoer terug te installeer.



Figuur 1: Krip konfigurasie

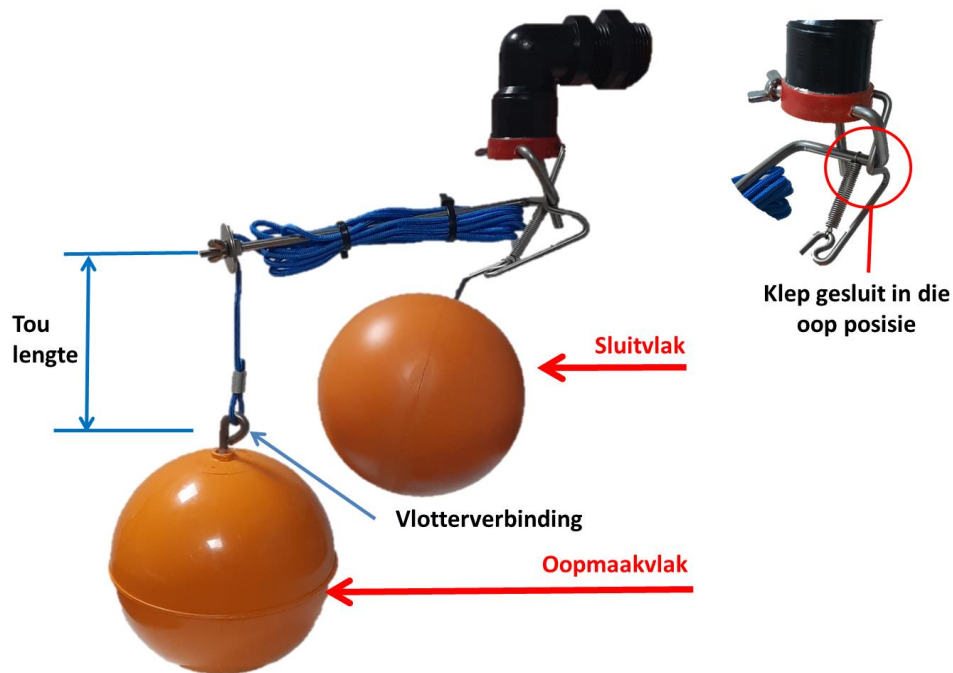


Figuur 2: Vlotter aanheg besonderhede

3. Tenk konfigurasie

Hierdie konfigurasie maak die verstelbaarheid van die Oopmaak watervlak moontlik, soos byvoorbeeld in tenks en damme en kan as volg opgestel word, soos vertoon in Figuur 3.

- Verwyder die Vlerkmoer B en Knypwasser en verwyder dan die Vlotter verbinding.
- Trek die verlangde Tou lengte vanuit die Verstellingstou uit onder die Klampe. Die Tou lengte bepaal die veranderde water vlak.
- Plaas die Knypwasser terug en maak die Vlerkmoer vas.



Figuur 3: Tenk konfigurasie

Figuur 3 verteenwoordig die klep in die oop geslote posisie. Soos die watervlak styg en die Sluitvlak bereik, sal die Sluitvlotter die sluitmeganisme ontsluit en die klep sal geleidelik sluit.

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 produk het 'n lang bedryfslewe waar die klep geleidelik sluit om 'n water hammer aksie te vermy.
- 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 of konfigurasie.

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