



- Energy Saving -
  - Hydraulic Relief -
- through  
**automatic**



## float sludge detection

- no unnecessary repumping of clear water -
- no useless waste of electric pump capacity -



float sludge removal  
with automatic  
float sludge detection  
to avoid any  
pump actions within  
the clear water area



waiting position

simple  
evaluation  
and  
briefing  
with  
preprogrammed  
LOGO-module  
and  
display reading



sonde has  
detected float sludge



## Short Summary



It is well-known that with medium float sludge accumulation, the float sludge in the round follow-up clearing tank only collects sectionwise at one place of the tank rim.

This as result of wind power. Even if the wind can hardly be noticed, it pushes the float sludge to the tank rim.

Depending on the amount of float sludge, it gathers in a corresponding big section area, which is only part of the total area.

The float sludge removal device which normally moves with the remover bridge, cannot recognize - when activated - in which sector float sludge is contained and how far the area is covered by it.

If float sludge has collected in a sector, which p.e. is only 60 degrees of the total area, does this mean that in the remaining 300 degrees-section only clear water is drained and repumped.

The clearing plant is needlessly hydraulically loaded and countless kilowatt hours are wasted for no reason. In the above case more than 80 percent of hydraulic load and energy cost can be saved.

Too much unreasonable time would be involved to employ one operating person just to switch the sludge removal device on and off.

This problem can be solved with an automatic float sludge detection which allows the removal of float sludge only, if it is in front of the float sludge removing device.

A sensor located approximately 20 cm above the water level, realizes a reference area in front of the float sludge removal device.

If sludge collects on the water surface in front of the removal device, the sensor recognizes this and starts the float sludge removal with an adjustable delay time.

Furthermore an interval time can be adjusted in order to let the sludge removal operate periodically and independently of the sludge amount.

A newly developed stain-resistant sludge protection system makes sure that maintenance service is kept to a minimum.



Surface scanner for secure detection of float sludge.

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