

# HUBER Submerged Pipes For Circular Settlement Tanks



- Regular clarified water discharge over the full pipe length
- No floating sludge overflow due to the submerged construction
- Easier to clean than discharge channels

## ►► The challenge

The clarified water discharge system in a secondary clarification tank should ensure a regular discharge, have only a small depth effect, allow for unhindered floating sludge collection and require only minimum maintenance.

## ►► The solution

The HUBER discharge system for circular clarification tanks consists in concentrically installed submerged pipes. In contrast to channel systems this discharge system excels with a smaller depth effect and regular clarified water discharge due to pressure discharge.

## ►► The operator's benefits

- Regular discharge over the full pipe length even under windy conditions
- Easy to clean
- Floating sludge collection is not impaired.
- Floating sludge removal up to the tank rim
- The outlet flow control unit ensures reduced water level variation (optional).
- Noiseless clarified water discharge
- Water level control can be combined with outlet flow measurement
- Low investment costs
- Stainless steel design for minimum maintenance
- Controllable outlet flow

## ►► The user's benefits

- Design assurance
- Allows for simple tank designs
- Reliable hydraulic layout
- Individually adjustable to specific project requirements
- Short installation times
- Minimized outlet flow variation

## ►► The function

In cooperation with research facilities at universities we have developed a discharge system the simple construction of which is convincing and represents a cost-effective alternative to conventional systems. In contrast to discharge channels this discharge system is unsusceptible to water level variation which gives a significant advantage over discharge channels.

The HUBER discharge system is designed individually for the specific project, based on a specially developed numerical calculation. Hydraulic certifications are therefore no problem.

An outlet flow control unit ensures the submersion height over the pipes of 30 cm.

Submersion prevents also ingress of floating sludge and allows scum collection over outlet system level.

Additionally, the submersion height reduces algae development to a minimum. A cleaning brush completely removes any sediments.



*HUBER cleaning brush for HUBER Submerged Pipes*

## HUBER SE

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Discharge System Submerged Pipe