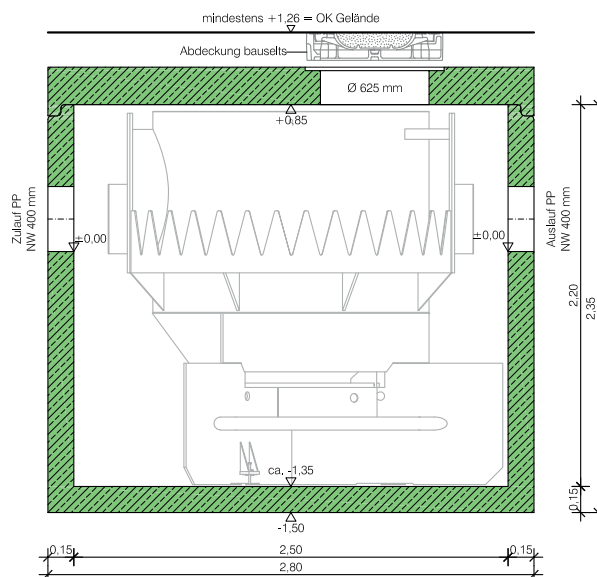


3P Hydroshark

Operating manual and installation instructions

Manual for operation, inspection and maintenance

- Hydroshark 0.8
- Hydroshark 1.0
- Hydroshark 1.2
- Hydroshark 1.5
- Hydroshark 2.0
- Hydroshark 2.5
- Hydroshark 3.0



Contents:

Important notes 03
General information 04
Installation of a 3P Hydroshark plant..... 05-09
Important instructions..... 10
Working principle..... 11
Professional certificate..... 12
Commissioning and Admission Protocol 13
Operating and maintenance instructions 14-15
Maintenance Protocols 16



Attention! Important note, please consider

The product must be mandatory aligned absolutely horizontal

Use the adjustable feet mounted on the Hydroshark for this purpose.

Please note that the Hydroshark sizes DN 800, DN 1000 and DN 1500 must be filled with 10 cm of concrete at the bottom of the shaft after connecting and aligning.

The sizes DN 2000, DN 2500 and DN 3000 are fixed to the bottom of the shaft by means of the adjustable feet.

General information

Location of the plant

Name of the site

Address

Postal code, City

Telephone, Email

Operator of the plant

Company, Municipality

Address

Postal code, City

Responsible person

Telephone, Email

Construction

Company

Address

Postal Code, City

Responsible person

Telephone, Email

Design details

Type of connected area

Installation date

Commissioning date

No. of sedimentation plants

Installation

of a 3P Hydroshark insert in a concrete chamber

Application:

Sedimentation plant for the treatment of contaminated stormwater runoff from roofs, traffic areas and special areas (commercial sites, industrial sites, airports, harbors).

Installation requirements

The sedimentation plant inserts will be installed in concrete or plastic chambers \varnothing 800 mm - \varnothing 3000 mm according to the valid actual standards.

The installation of multiple sedimentation plant inserts in a larger concrete chamber is also possible. Here, care must be taken that the systems are operated in parallel and not in series.



Installation of a 3P Hydroshark

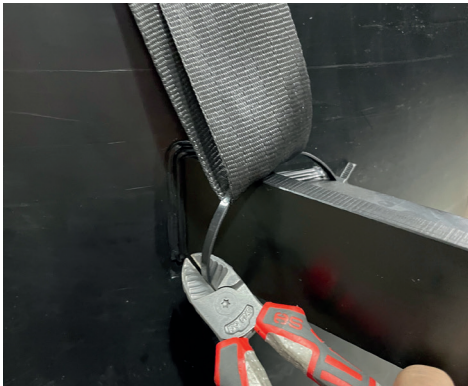
in a concrete chamber



1. Dredging of the excavation pit, supporting the wall according to legal requirements. Insert a horizontal, 10 to 15cm thick support of sand or concrete.



2. Place the chamber and check the horizontal position. Align the inlet opening in the correct position.



3. Loosen the belt loop fixed to the Hydroshark and only use it for lifting or inserting it into the shaft. After completing the installation, remove the belt loops from the system.



4. Install the 3P Hydroshark insert in the chamber, so that the inlet and outlet are already pointing in the right direction.
ATTENTION! Make absolutely sure that no one is under the Hydroshark or in the concrete shaft during installation.



5. This side represents the inlet.



6. Make sure that the sides are evenly spaced from the chamber walls respectively. This facilitates the assembly of the anchors.

Installation of a 3P Hydroshark in a concrete chamber



7. Use the adjustable feet and the height-adjustable fitting plate on the drain to align the Hydroshark. You can adjust the leveling feet with the help of the enclosed installation tool.



8. Connect the inlet and outlet of the Hydroshark. Make sure that the seals are covered with sufficient lubricant (not containing oil). Push the pipes from the outside through the seals of the gaskets of the shaft wall and connect the pipe to the flange on the Hydroshark by means of the sealing gasket.



9. Check the alignment of the Hydroshark and adjust again if necessary as described in point 7.

Installation of a 3P Hydroshark in a concrete chamber



10. Now insert the fixation anchors through the wall of the Hydroshark and fix them to the shaft wall by using the supplied anchors and bolts.

Important instructions!

Please note!

The 3P Hydroshark insert must be protected against dirt during installation!



11. Fix the Hydroshark by locking the two supplied nuts to the fixing anchors. Make sure that the distances between the shaft wall and the weir are evenly spaced on both sides.



12. After completing the installation, check again all points:

- Seating of the pipes in the seals
- Alignment of the hydroshark
- Gap width between weir and shaft wall uniform
- Fixing anchors tightly locked and fixed to the wall

Working principle:

1. The incoming storm water is deflected into a radial flow pattern.

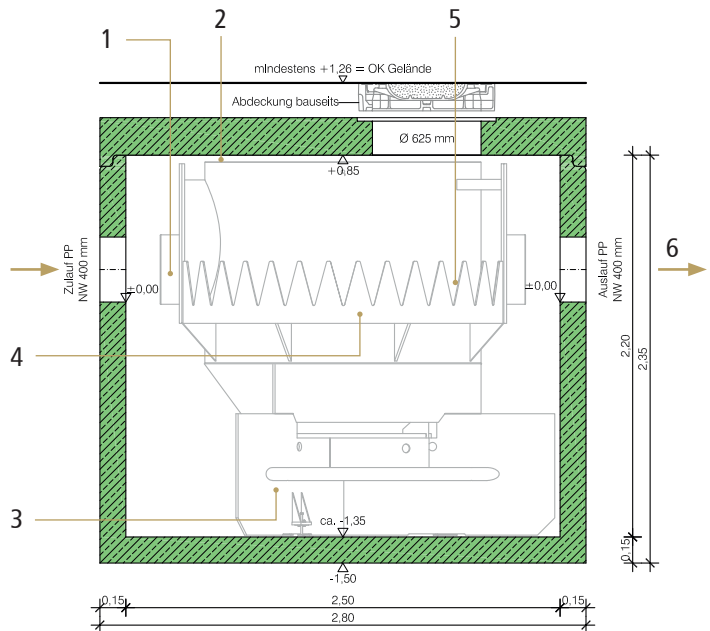
2. Solids settle to the sludge chamber, floatables are held at the surface.

3. Solids are retained in the sludge chamber below the treatment chamber. Remobilisation of retained solids is not possible, flow baffles and a grate prevent this.

4. Cleaned water flows up the outer chamber in an even flow distribution.

5. Water flows over the balancing weir to the circular space surrounding the treatment chamber.

6. Clean storm water passes to the outlet.



Professional certificate

For the construction or modification of stormwater treatment systems

Project name

Designation of sedimentation plant

Professional / Expert (name)

Address

Postal code, City

Builder

Address

Postal code, City

Location of the plant

Address

Postal code, City

1. I have installed the

- piping system
- sedimentation plant
- new system modified
- controlled as expert

2. The drainage system complies with the requirements of the valid standards.

3. The pipes, components and components used for the system comply with the relevant product standards.

4. I have received the installation instructions of the manufacturer and installed the system according to these instructions.

The treated stormwater will be discharged into

- a groundwater infiltration system
- receiving water
- stormwater sewer
- combined water
- _____

The measure has been carried out / checked complying with the valid standards and the general accepted rules of technology. The design corresponds to the planning documents including the proper execution of the preliminary work.

Commissioning and Admission Protocol

3P Hydroshark

Building project

Owner represented by

Specialized company represented by

No.	Characteristic	Remarks
1.	The 3P Hydroshark insert was fixed in the chamber by means of fixing anchors.	
2.	The 3P Hydroshark insert was aligned	
3.	The uniform distance of the balancing weir to the chamber wall was checked.	
4.	The bottom of the chamber was filled with 10 cm of concrete.	

The instruction for the operation of the plant has been made; the required operating documents and existing operating and maintenance instructions according to the installation were handed out completely.

Operating and maintenance instructions

3P Hydroshark

Due to the solids and pollutants in stormwater runoff, stormwater treatment systems must be checked and cleaned in regular intervals.

The following work is necessary for the 3P Hydroshark:

Annual maintenance:

- At intervals between 0.5 and 3 years, the sludge trap must be emptied. The amount of sludge depends on the local conditions and can vary.
- For stormwater runoff with untypically low or high solids loads, these periods may vary. This turns out in the first years of operation.

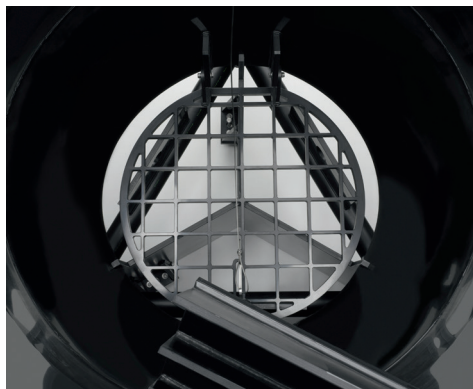
Required tools and materials:

- Suction and flushing vehicle or submersible silt pump with hoses
- Generator when there is no power connection nearby
- High-pressure cleaner or flushing lance for connection to the pump

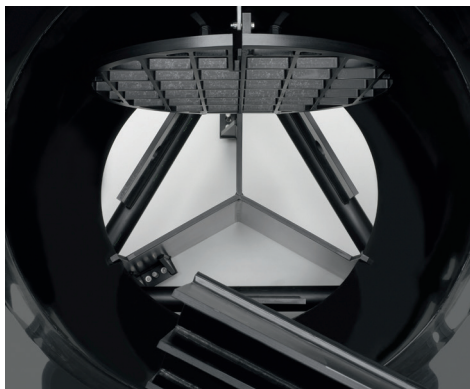
Important notes:

- The water pumped out of the chamber and the sludge trap may only be discharged into a foul sewer or a combined sewer. In no case the water may be discharged into a surface water course, a stormwater sewer or a groundwater infiltration system.
- If there is no possibility to discharge the water, a mobile water treatment system may be used. The treated water can be discharged into a receiving water or storm water sewer.

Maintenance instructions



1. First remove the layer of light substances and oils on the water surface and then lower the water level to the level of the grate by using a vacuum hose.



2. Remove any solid matter from the grate and then open it with the rope pull provided for this purpose.



3. Now use the vacuum hose to suck the sludge and solids from the sludge collection chamber. Make sure that you remove the sludge from each section. Rinse with water if necessary. Afterwards, lower the grate, check the lock and close the lid of the system again.

Maintenance protocols

Please use as a copy template

Maintenance interval	State / Remark	Maintenance work	Name and signature
Date:		<input type="checkbox"/> Inspection of the system for visible damage <input type="checkbox"/> Emptying and cleaning of the sludge trap <input type="checkbox"/> Grate is closed and locked	

Date:		<input type="checkbox"/> Inspection of the system for visible damage <input type="checkbox"/> Emptying and cleaning of the sludge trap <input type="checkbox"/> Grate is closed and locked	
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Date:		<input type="checkbox"/> Inspection of the system for visible damage <input type="checkbox"/> Emptying and cleaning of the sludge trap <input type="checkbox"/> Grate is closed and locked	
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