

ECONOMY:

- Operating costs
- Maintenance
- Man-hours
- Costs



ENVIRONMENT:

- Architecture
- Degree of retention



CSR:

- Easy to maintain
- Improved working conditions

PRE-TREATMENT

PROCESS

SLUDGE TREATMENT

OUTSIDE THE FENCE

SERVICE

COOPERATION WITH **value**

At Stjernholm, we work to ensure that we always deliver the best sustainable solutions possible with regards to economy, environment and CSR.

We believe that the best solution is achieved through leveraging our shared competencies optimally in a successful collaboration based on

mutual respect, an open and frank dialogue and exchange of ideas.

We propose large tenders is divided into 6 phases, in order to ensure optimum correlation between our clients' strategies, KPIs and objectives and the opportunities the sector and advisers can offer.

Through our dialogue with you as a customer, we appraise whether there are other factors that can affect the decision such as:

- Are there basins for the flush water?
- What volume in m3 needs to be filtered?
- Is the final decision based on specific KPIs and targets?

This way maximum safety is achieved that the final solution is made based on a sustainable, long-term optimization of supply operation for the benefit of both consumers and the supply's staff.

The objective is to obtain a final solution based on a sustainable long-term optimisation of waste water operation to benefit both customers and the wastewater operational staff.



value

When working with us, you can expect focus on delivering you a solution that adds value to the plant

SCREENS FOR OVERFLOW STRUCTURES



ECONOMY

- Save man-hours on cleaning screens
- Save on emission costs



ENVIRONMENT

- Less screen material released into the surroundings



CSR

- Easy maintenance
- Functional to work with

Join Stjernholm A/S to reduce pollution from overflow structures and find sustainable solutions!

ADVICES FOR TENDERS

Tenders on machine equipment should always be prepared as a pre-commercial procurement.

Those invited should have the opportunity to inspect the plant and discuss the installation before the documents for the tender are finalized.

In addition, the bidders should have the opportunity to present and review their offers to the contractor and the adviser before the order is finally placed.

The offers should be considered with great emphasis on the areas mentioned on the next page under the section: "Let's Talk Facts". When you work with us, you can expect us to focus on delivering you a solution that adds value to the wastewater plant.

Screens for overflow structures **"LET'S TALK FACTS"**

Stjernholm A/S manufactures and supplies two different types of screens for building into overflow structures: the patented hydraulic-driven vertical screen, type VR, and the motor-driven screen, type RO.

Both types are designed for optimal retention of screen material, which is then led off to the WWTP.

Discharge of screen material to the recipient is minimised, sparing the environment and reducing emission charges.

Which type of screen is best depends on local factors such as the type of structure and the nature of the screen material.



The VR screen is cleaned hydraulically, and consists of a number of parallel horizontal screen bars; every alternate bar is movable. The screen is available with 4 to 10 mm screen spacing, which under normal operation will ensure retention of 90% of the screen material.



The RO screen is cleaned by an auger with brushes. Here the screen material is retained inside the screen by means of a perforated plate. It is available in three different dimensions and can be supplied with capacity as high as 1200 litres per second.

SCHEDULE FOR COMPARISON WITH OWN REQUIREMENTS OR OTHER OTHER SCREENS

FACTS	VR SCREEN
Lifetime	10 – 15 years
Materials	Standard EN 1.4301
Screen spacing	Between 4 - 10 mm
Retention	Up to 90% of the screen material
Capacity	From 50 — 5,000 litres/sec.
Control	Local control cabinet
Installation	Withstands full submersion

FACTS	RO SCREEN
Lifetime	10 – 15 years
Materials	Standard EN 1.4301
Perforation	1 - 12 mm
Retention	Up to 90% of the screen material
Capacity	from 175 — 400 l/sec.
Control	Local control cabinet
Installation	Withstands full submersion

The schedule is available for download at www.stjernholm.dk

Screens for overflow structures **"LET'S TALK FACTS"**

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TECHNICAL DATA:		VR SCREEN		
Effective height:		300 mm	500 mm	750 mm
Standard length:		3,000 mm	3,000 mm	3,000 mm
Overflow edge height:		150 mm	250 mm	375 mm
Total height:		635 mm	830 mm	1085 mm
Screen spacing standard:		4.0 mm	4.0 mm	4.0 mm
Motor, hydraulic station:		3.0 kW	3.0 kW	3.0 kW
Weight:		250 kg	410 kg	620 kg
Unload cap. by vel. of 1 m/sec:		1,350 m³/h	1,575 m³/h	1,920 m³/h
Standard materials:		EN 1.4301	EN 1.4301	EN 1.4301

TECHNICAL DATA:		RO SCREEN		
MODEL		Ø 300	Ø 550	Ø 700
Gear motor		0.37 kW	1.1 kW	1.1 kW
Electricity		230/400V, 50Hz	230/400V, 50Hz	230/400V, 50Hz
Capacity per section:		approx. 175 l/s	approx. 320 l/s	approx. 400 l/s
Standard length		1m sections	1m sections	1m sections
Conveyor Ø		Ø 300	Ø 550	Ø 700
Standard materials:		EN 1.4301	EN 1.4301	EN 1.4301

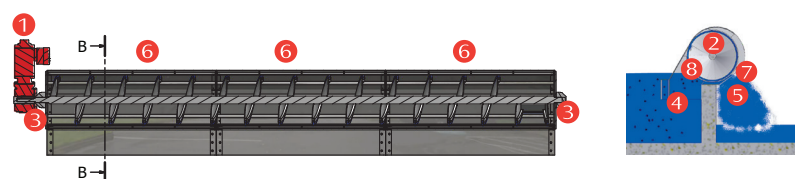
HOW THE STJERNHOLM VR SCREEN WORKS

1. Hydraulic motor
2. Screen bars
3. Rake
4. Hydraulic hoses



HOW THE STJERNHOLM RO SCREEN WORKS

1. Gear motor
2. Screw conveyor
3. Watertight bearing
4. Inlet/outlet
5. Clean water outlet
6. 1m section
7. Perforated plate
8. Nylon brush



STJERNHOLM A/S

Stjernholm A/S develops, produces and markets better technical solutions with a high level of sustainability. Under the headline "Cooperation with Value" we focus on areas where we can make a difference within the areas of economy, environment and CSR.

We focus on delivering solutions with proven sustainability and base our way of working on an open and valuable dialogue based on mutual respect both externally and internally.

Stjernholm A/S was founded in 1997 and employs about 30 dedicated and competent employees. We have a healthy economy and we are a recognized and established player in the wastewater treatment market, where we are known for our innovative, future-oriented approach in collaboration with our customers.



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