

Noggerath® Vertical Sieve Screen NSI-V

Fine screening of wastewater in sumps or pumping stations by a perforated screen basket, including subsequent vertical conveying, washing, dewatering, compacting and discharge of screenings.



The Noggerath® Vertical Sieve Screen NSI-V is designed to be installed into sumps, man-hole chambers, underground chambers and pumping stations. Their use serves to protect downstream pumps and process equipment.

Vertical sieve screens are machines combining a screen, spiral and a press unit. During

operation, liquids flow into the screen basket causing an upstream level of the liquids. At a pre-set water level the drive of the screen is automatically activated to convey solids up to the pressing zone. Cleaning brushes mounted on the spiral will clean the screen basket causing the level of the liquid to lower.

Benefits

- Fine screening, washing and dewatering in one unit
- Simple retrofitting of existing plants
- Complete hygienic stainless steel encapsulation
- No bearing in contact with the effluent
- Quick and easy installation

Unique features

All the main parts of the screen are bolted to ensure a fast and easy maintenance without removing the screen from the sump. Cleaning brushes divided into smaller sections guarantee easy and fast exchange whenever replacement is required.

Design sizes

Basket diameter	200 – 700 mm
Channel depth	500 – 11,000 mm
Discharge height	customized
Perforation	2 – 10 mm
Gap width	0.25 – 2 mm (optional)
Installation angle	90°
Flow rate	up to 1,100 m ³ /h

Materials

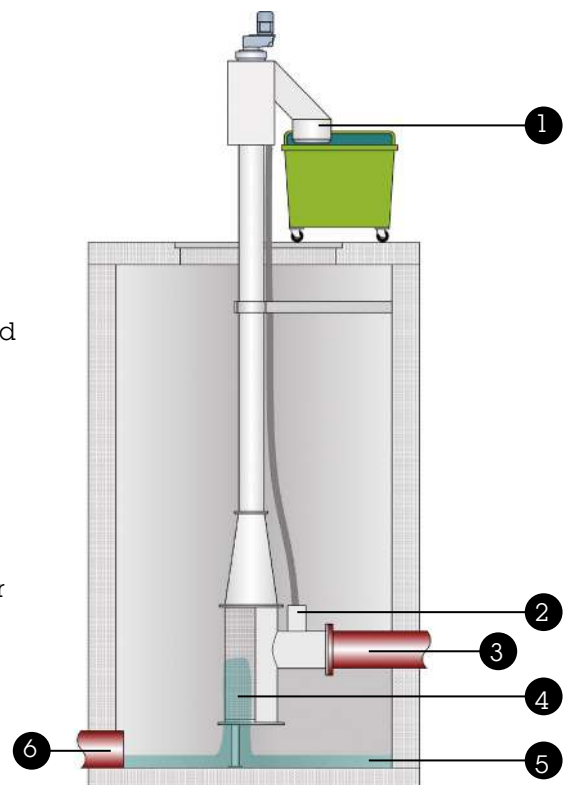
Casing, supports, screen basket, wearing liners	Stainless steel AISI 304 or AISI 316 Others on request
Shafted Spiral	Special Micro Alloy Steel St 52 (carbon steel in acc. with AS Group standard), alternatively stainless steel AISI 304 or AISI 316

Options

- Hygienic collection of screenings via screenings collection bags
- Manual or automatic flushing of transport zone
- Anti-freeze protection and heating of the transport and compaction zone
- Control panel with level indicator

Flow chart
Noggerath®
vertical spiral
sieve NSI-V

- 1 washed, dewatered and compacted screenings
- 2 emergency outlet
- 3 inlet
- 4 screen basket
- 5 sieved waste water
- 6 outlet



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The technical data stated in this brochure are indicative only and have to be determined for each individual case.
Reserve technical changes.