

# SCREW SIEVE SERTAMVIS

## PRINCIPLE

The screw sieve **SERTAMVIS** may as the SERTEL sieve, be installed in a channel or in a steel caisson. In the SERTAMVIS the sieve screen is hemi-cylindrical °. The water to be treated flows through the screen, and the solid matter stopped is extracted by an Archimed screw axless until the upper outlet. These sieves have a 35 ° inclination, in order the screw can easily scrape up the matter.

These sieves may be installed in many application, but when we have the choice ,we prefer use them, with high mesh to treat water containing mud, big pieces, as pebble or whatever. To treat waste water, specially with little mesh, we prefer use the SERTEL sieve .In fact ,the SERTAMVIS is less sensible than the SERTEL sieve to the presence of big pieces .On the other hand ,the SERTEL sieve has a more powerful cleaning system ,specially for the little slots :there is no risk of plugging the screen even in presence of fatty particles. Moreover , due to its 60 ° inclination, or more , it may be installed in deep channels.

## CARACTERISTICS

The sieve diameter is selected following the water flow rate to be treated and the slot desired. The standard diameters are :300,400,500 and 600mm.

Then following the depth of the channel and the desired discharge height, the correct length is defined.

The standard length varies from 1.5 to 8 meters and more.

Except the screw, this equipment is made with AISI 304 L stainless steel .

Until a slot of 2 mm included, the screen is made with triangular section wire ; from 3mm and higher we use perforated metal sheet.

The Archimedes screws are made with A 42 grade steel. They have no axes.

There are two lateral plastic strips to ensure watertight between the sieve and the concrete walls.

The diameter of the screw is adapted to the diameter of the screen, and a nylon brush fixed on the surround ensure the cleaning. In the transportation sector, the screw diameter is 300 mm



- The transport tube between the screen and the outlet is 323 mm in diameter.
- The compacting section has a cylindrical screen made of triangular section wire.

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## APPLICATIONS

The **SERTAMVIS** sieve are convenient to treat waste water, But they are more adapted to treat loads.

## AVANTAGES

This system is very simple and robust, and it is able to carry big pieces .

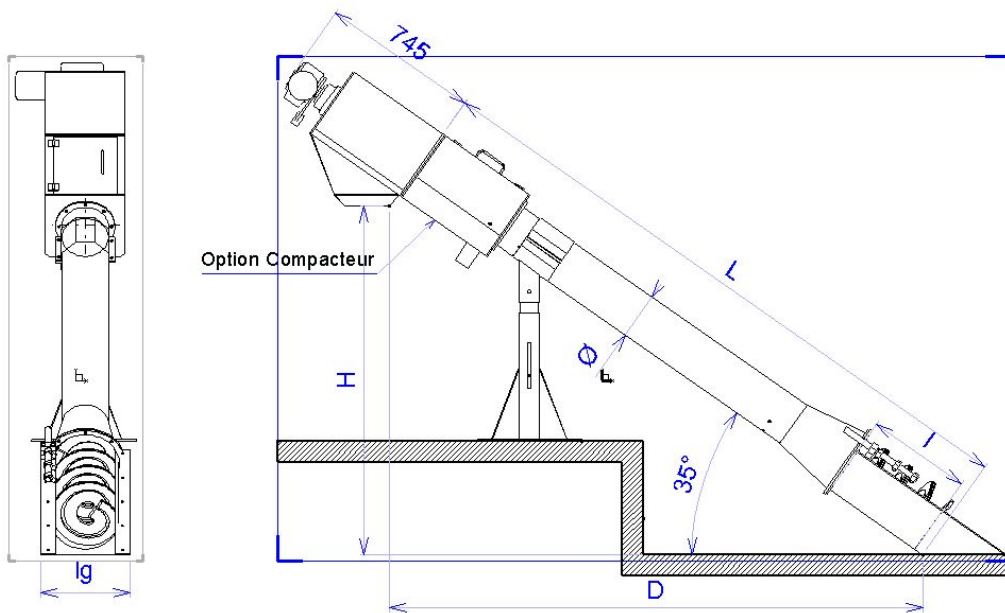
**Flow rates : m<sup>3</sup>/h – For 0,25 m water height.**

(The 1 meter long grid inclined at 35° has 0,57m height)

Slot	Ø 300	Ø 400	Ø 500	Ø 600
1 mm	46	58	85	98
2 mm	68	82	118	125
3 mm	94	118	177	205

**H versus length of sieve.**

Length L=	1,5m	2m	2,5 m	3 m	3,5m	4m	4,5m	5m	5,5m	6m	6,5m	7m
H=	0,86m	1,14m	1,4 m	1,7 m	2m	2,3m	2,55m	2,85m	3,1m	3,4m	3,7m	3,25m



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