



Especialistas en mecánica de fluidos

SCM Channel Screen



INTRODUCTION:

The **SCM self-cleaning screen** is a self-cleaning, single-flow, continuous travelling screen, adapted to work by extracting the solids in wastewater.

Unlike single flow band screens, which are common in large water intakes or irrigation systems, the **SCM screen** is designed to be installed in small and medium sized channels. The screen is designed to remove solids of a maximum size of 125 mm, so the installation must have appropriated previous protection.

DESCRIPTION:

The filtering band of the sieve is made up of teeth in the shape of a nose, made of ABS, connected to each other by means of stainless steel shafts. These shafts are connected to a roller conveyor chain with flange and hollow shafts, which drives the entire mechanism.

The operation of the equipment is very simple: The filter panels describe a curve in the lower part of the screen and, after passing through the lower horizontal seal, it traps the solids with the upper bevel of the panel. The solids are extracted from the bottom of the channel, and continuously lifted to the discharge point.

There is no relative movement between the high solids, and therefore it is not necessary to form a "filter pad" for the equipment to work properly. When it reaches the discharge point, the solids that do not adhere to the filter belt are discharged by gravity.

The filter panels open to each other and form a continuous curve without nooks and crannies. A scraper blade synchronized with the belt movement acts at the lowest point of the filtering rim, copying the profile of the curve formed by the open panels and expelling the solids adhered to the belt, as shown in the figure.

The SCM Channel Screen incorporates in all its models a washing tube with pressurized water. The sieve is driven by a geared motor.

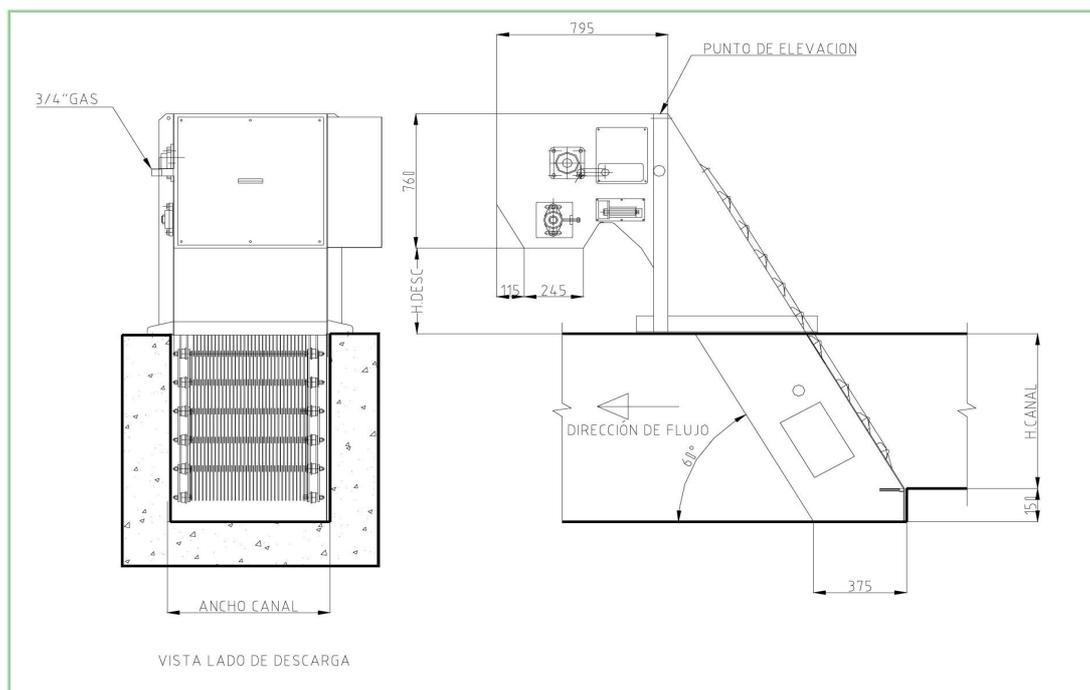


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APPLICATIONS:

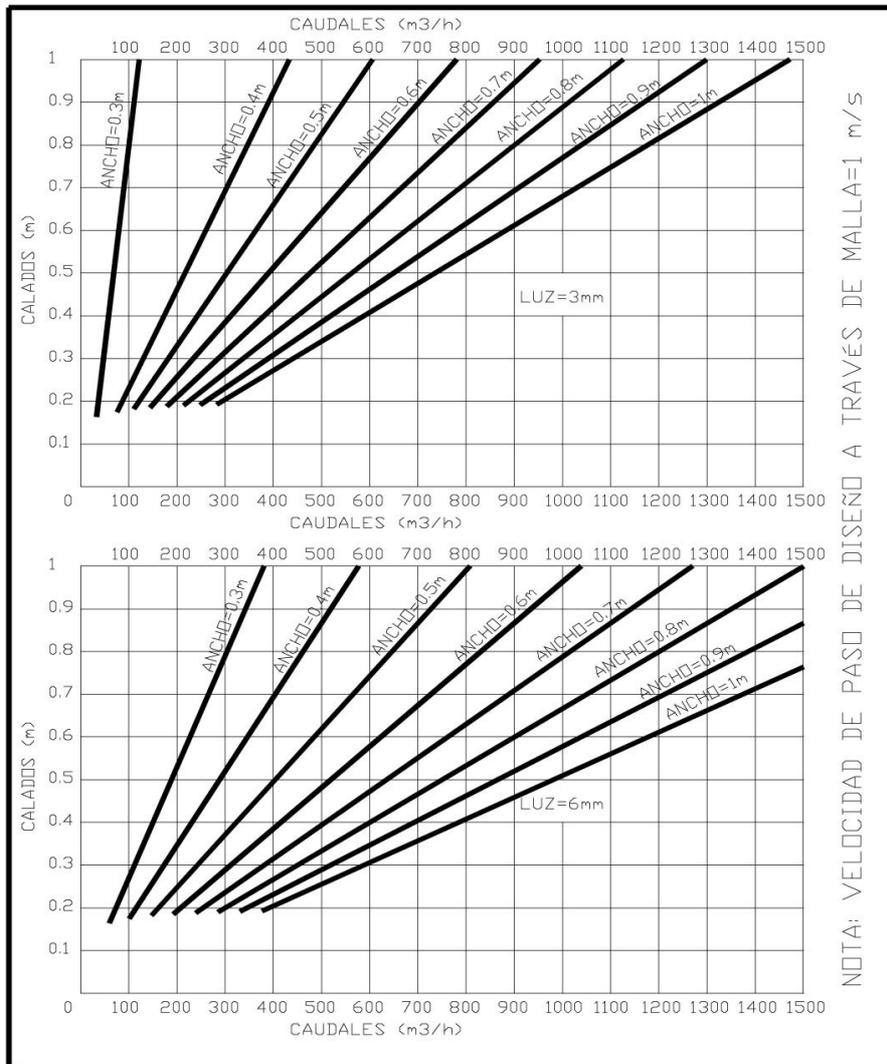
- Screening of urban and industrial wastewater.
- Screening of raw water in pumping stations.
- Separation of macroscopic algae in irrigation channels.
- Screening of trawl water in vegetable canning industries.
- Screening of discharges and process water in sugar factories.
- Screening of effluent in the meat industry.

GENERAL DIMENSIONS:





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NOTA: VELOCIDAD DE PASO DE DISEÑO A TRAVÉS DE MALLA=1 m/s