



Especialistas en mecánica de fluidos

TTA Spillway Screens



INTRODUCTION:

Spillway sieves are placed in the side spillways of the collectors to prevent solids from escaping into the river bed.

The **TTA sieve** is simple to operate: When the collector's water level reaches the discharge threshold, a level buoy is activated to give the **TTA** the command to start the operation. An oil-hydraulic group, located in a place isolated from the effects of water, starts up a hydraulic gearmotor designed to work underwater, a screw conveyor with a nylon helicoidal brush attached to its edge. The screw transports the solids retained in the filter element downstream and simultaneously cleans it continuously.

When the solids reach the end of the screw, they are reincorporated into the collector channel by means of a pivoting scraper/blade system. In this way, a filtered water free of rags and other unpleasant solids is poured into the public waterway, which is taken by the collector back to the treatment plant or pumping station, at which time the solids are extracted into the container by sieves or clean-up equipment.

DESCRIPTION:

The **TTA spillway sieve** is a very good solution for both new and existing installations where it cannot otherwise be installed or where there are hydraulic restrictions upstream. In addition, as these equipments are usually installed in places that are difficult to access or that do not have a place for the extraction of the waste, they are ideal since the waste is returned to the collector or arrival channel for its later treatment in the WWTP. The two-dimensional clearance of the perforated plate ensures high solids retention.

The **self-propelled TTA spillway sieve** is placed horizontally in the inlet manifolds in front of the side dump. It consists of a half-round perforated plate, with an arc of 180°, which acts as a filtering mesh and a conveyor screw that turns concentrically to it. The mesh is cleaned by means of an adjustable, wear-resistant brush mounted on the edge of the worm.



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The equipment operates fully automatically during rainfall events. The drive is carried out by a device that transmits the force of the water directly to the gearmotor.

The **TTA spillway sieve** has the following **FEATURES**:

- Dimensioned light, 3-6 mm in perforated plate.
- Installation in side landfills and storm tanks.
- Very robust and low maintenance equipment.
- Fully automated continuous cleaning of the filter screen.
- Efficient separation and removal of suspended and floating solids.
- Treatment of large flows even in installations with upstream hydraulic restrictions.
- The waste is returned to the channel or collector for subsequent treatment in the plant.
- Self-propelled equipment, no electricity required.
- Maximum flexibility when it comes to installing it both in new buildings and in existing installations.

GENERAL DIMENSIONS:

