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SIEVES

CHAIN FILTER CHAIN SIEVE



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WHAT ABOUT

The DET15B CHAIN FILTER / CHAIN SIEVE is a unit intended to filter or sieve water in deep channels which may feature a significantly variable high flow rate. It is suitable for the retention of solids of between 150 microns and 6 mm.

The chain sieve / chain filter is a single unit, which comes ready-made and tested from the factory which makes it far easier to install on site. Furthermore, its design means that it can work fully independently, thus reducing its on-site maintenance; it even has a self-cleaning system for the mesh filter.

The chain sieve / chain filter can be made in accordance with client needs; it is primarily dependent on the flow rate and depth of liquid.



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DRIVE UNIT – DRIVE WHEEL

Comprised of a geared motor which works directly on the main shaft, mounted on steel rails, to tighten and loosen the conveyor chain. Depending on filtration needs, this drive unit may be equipped with a two-speed motor – one for normal use and another faster one for cases where there is an exceptional clogging of the filters. The main shaft is linked to the drive gearwheel which interlocks with the chains and these, in turn, support the mesh filter. The chain filter drive unit is usefully equipped with a protective cover to adapt to the risk prevention regulations for machines.

LATERAL RAILS

Built from steel profiles, they ensure perfect operation of the chain sieve / chain filter. Inside the rails are the chain rollers which ensure the set of filtration panels are guided through correctly.

SET OF FILTRATION PANELS

a series of modules mounted on the rolling conveyor chains. The chain sieve / chain filter panels comprise some steel frames where the mesh filter is attached, whose pitch depends on the filtration requirements. It is easy to replace if it deteriorates.

DRAG CHAINS

These are conveyor chains with a bearing system that interlocks with the main wheels. They are guided round the filter by steel profiles; tension can be imparted to the upper section. They are made from galvanised or stainless steel mesh; shafts and sleeves from stainless steel; and the bearings from anti-wear synthetic material.



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SEALING SYSTEM

The chain sieve / chain filter filtration panels have steel plate at the edges designed so as to stop the solids from passing between panels and guides – suitable to the sieving requirements. Therefore, the panels are built so that between two of them there is an overlap which stops solids moving between the panels.

CLEANING SYSTEM FOR THE FILTER CLOTH

The cloth is cleaned using pressurised water in a flat fan spray pattern. The cleaning water enters through a series of nozzles positioned throughout a pipe inside the chain sieve / chain filter filter. The water is sprayed at the cloth from inside to outside; this loosens the waste attached to the cloth and sends it into the hopper.

HOPPER FOR SOLIDS

Built from 100 % steel plate and designed specifically for the way it works. The waste and cleaning water exit via one of the ends. In order to sporadically inspect the inside, it has peep-holes installed which allow for occasional cleaning. There is a pressurised water inlet (adjustable via a manual valve) to facilitate removal of the waste from the chain sieve / chain filter.

MONITORING EQUIPMENT (OPTIONAL)

Automatic operating system based on pressure loss at a variable flow with a timedelay to prevent possible freezing due to a lack of regular use. All the components necessary for manual or automatic operations are mounted in the control box.

