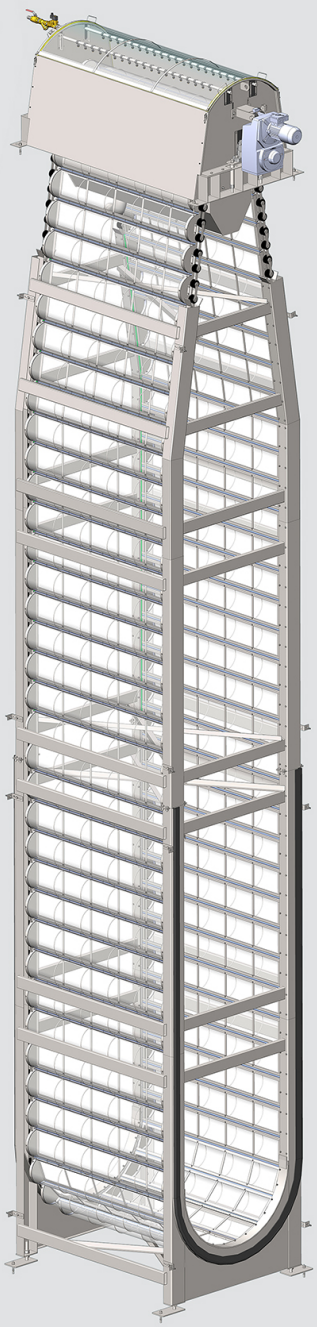
Belt screen - PF

Belt screen (PF), or segmented belt screen, consists of a continuous segmented screening belt fitted with a technical sieve. It is intended for fine screening of pre-treated water in industrial plants, power plants, water treatment plants and certain wastewater treatment plants.

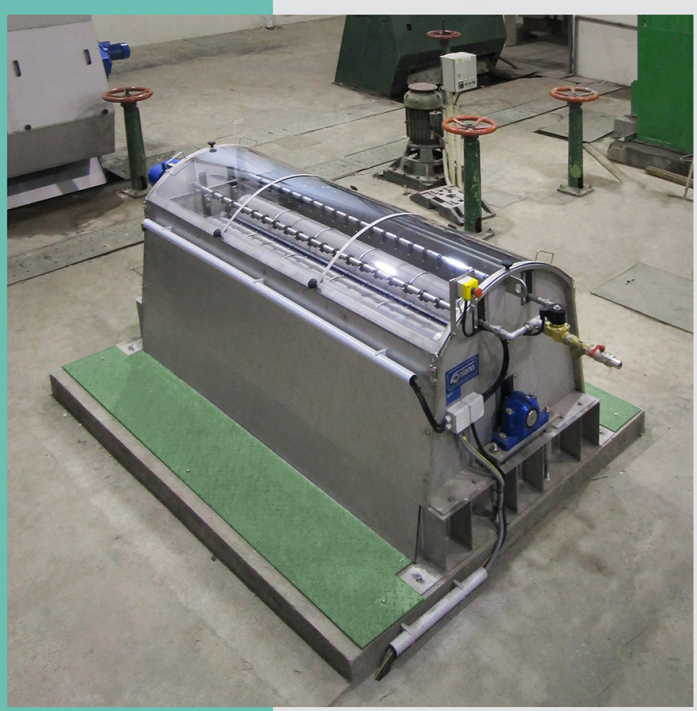
The screening belt, mounted in a support frame, can be inserted directly into a water channel, a widened channel section, or a concrete sump. It is suspended from a load-bearing guiding structure and partially submerged into the inflowing water.



Technical data	
Total screening surface area:	6 - 80 m^2
Technical sieve - mesh size:	0,63 - 1,5 mm
Electric gearbox power input:	0,55 - 1,1 kW/400W
Solenoid valve input power:	1/2"- 1", 30 VA
Jet washing water:	0,5 - 2 $l.s^{-1}$, 0,3 - 0,6 MPa
Material:	stainless steel
Seals:	plastics and rubber
Screen control:	intermittent

For alternate parameter value ranges, please consult the manufacturer

Product designation: **PF B x H/L x e**



ISO 9001

WASTEWATER TREATMENT PLANT EQUIPMENT

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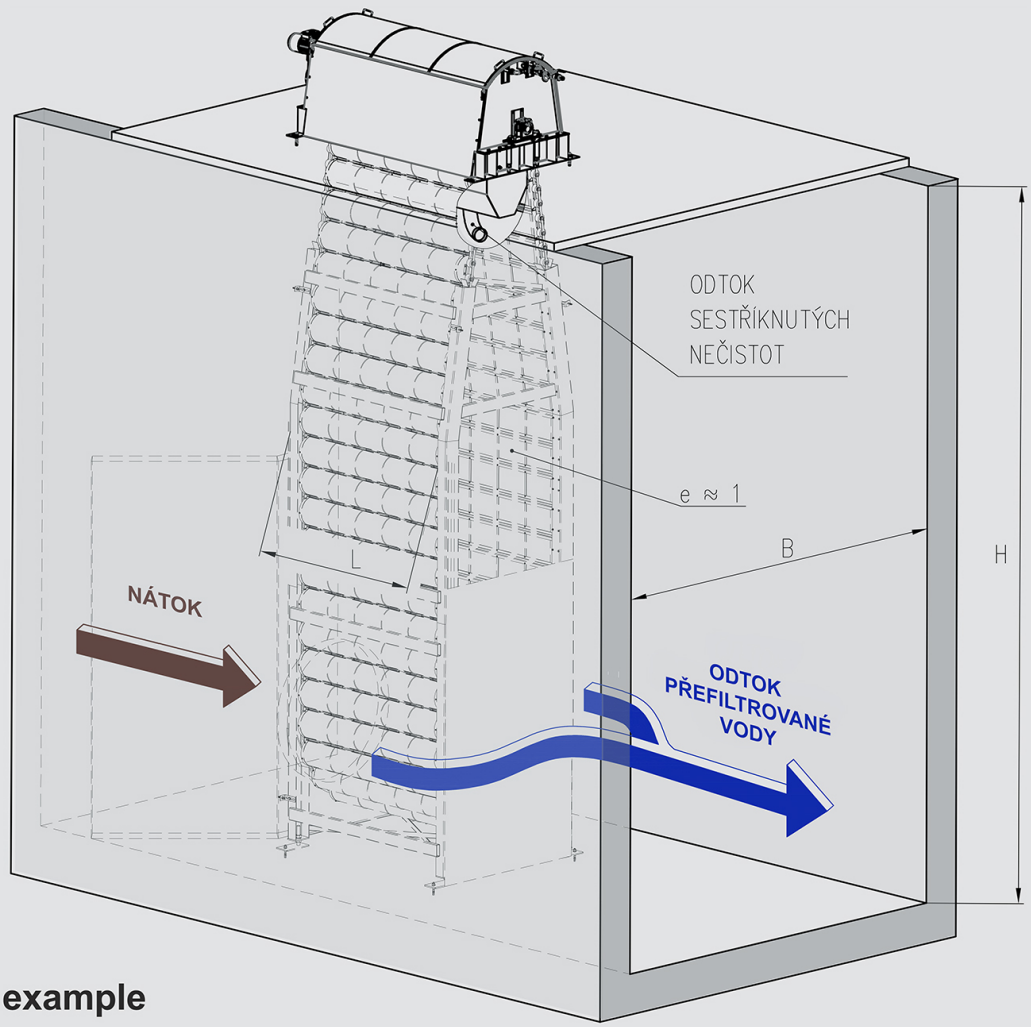
The elliptical continuous closed-loop belt is built up from individual screening segments. Each belt segment is sealed along its connection with adjacent segments, and along its connection with the support frame. Water intended for screening is fed into the internal elliptical compartment of the belt through the front wall. The water passes through the submerged part of the screening segments on both sides, and is guided into the external drainage area. Solid material is trapped within the internal compartment of the belt segments, gradually increasing the water level differential between the inlet and the outlet. Once the water level differential reaches a pre-determined point 100–300 mm, the belt movement mechanism activates and carries the soiled segments vertically upwards into the jet wash area. Attached solids are sprayed off into a collection through and removed from the belt screen area. For the belt movement, a chain mechanism driven by an electric gearbox is used. The cleaned screening segments are returned into the screening area below the inflowing water level.

Operation of the belt screen is automated, with the option of manual control. Activation of the belt movement can be governed either by the water level differential between the inside and outside of the screening compartment, or a timer. Installation of a screening device for removal of coarse undissolved material preceding the belt screen (e.g., mechanical bar screen) is a prerequisite for fine screening without failures. Maintenance work is carried out at the above-ground part of the belt screen. Individual segments are removable and replaceable. All parts, including the screening segment sieves, are made of stainless steel. Seals are made of plastics and rubber profiles.



PF B x H /L x e - example

The manufacturer Fontana R, s.r.o. offers its customers free consultations and technical assistance to help ensure optimal integration of equipment into the technological part of given WWTP.

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