



## BELT SCREEN





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## MAIN FEATURES:

- Low power consumption
- Self-cleaning / intermittent operation
- Simple / robust design
- No Submerged bearing or sprocket/ all moving parts above the waterline
- Pivoting design for by pass purpose and maintenance out of the channel
- Coarse and fine screening in one unit
- Flows up to 100MGD in a single unit
- Delivered fully assembled
- No attachment to sides or bottom of channel
- Suitable for new or existing channels, retrofit solution
- Rugged stainless steel construction
- Long lasting High Impact plastic Elements (easy for replacement)

## DESIGN CONSIDERATIONS:

### Typical Screen Spacing

1/8 - 5/8 (in) 3 - 15 (mm)\*

1/8 - 1 1/4 (in) 3 - 30 (mm)\*

Available Angles of Inclination: 60/ 75 / 85

Maximum width: 10ft (3000mm / 118 in)

Maximum depth: . . . . .

Frame Materials 304 or 316 SS

Two frame styles are available:

Type P (Pivoting Design) and Type F (Fixed Frame Design).

The KEVIVA BELT SCREEN is a self-cleaning in-channel screen that uses a High Impact filter element system designed to automatically clean the suspended solids from a wastewater stream.

The filtering elements work together on a stainless steel shaft forming a moving belt that discharges the solids by cleaning themselves one against each other. Elements are mounted on a series of parallel shafts.

The elements spacing goes from 0.1mm (ULTRA FINE SELF CLEANING SCREEN) up to 30mm – on a standard design (0.1, 1, 3, 6, 15mm) or heavy duty design (3, 15, 30mm).

- The unit is also equipped with a rotating brush that provides positive removal of any additional solids that might remain on the belt.
- Optional water sprays can provide a final polishing on the element

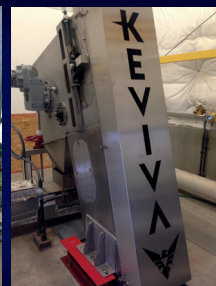
belt in especial applications.

They are designed to fit into any new OR existing channels. It's completely tailor made design for every customer.

When the solids builds up on the screen, the motor drive is activated by a level sensor. The screen is then advanced one level or cycle and stops. As this sequence is repeated, the solids are lifted up to the top of the screen.

- The material piles up, thus blinding the screen and increasing the effectiveness of the fine filtration. This is the reason we recommend intermittent operation by measurement of the headloss (difference between the upstream and downstream water levels).

The special shape of the filtration element and their arrangement provide a vertical and horizontal - double filtration mesh.



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### BENEFITS

- Low operation and maintenance costs
- High capture rates
- High flow and solids loading capacity
- Ease of installation
- Fully customizable
- Odor control using front, rear and side covers



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