

CSO SCREEN



With reinforced screen bar structure and dual-directional screen cleaning the CSO Screen is a low cost, low maintenance solution to pollution of waterways.

FEATURES

- Reinforced screen bar structure
- Dual-directional screen cleaning
- Dual weir overflow
- All stainless steel components
- Extensive combined sewer experience
- American manufactured
- Horizontal design
- Conservative design
- Lower HP requirements
- No integral overflow weir
- Serviceability



KUSTERS WATER

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WASTE TECH CSO SCREEN

Regulations require that combined storm overflows are screened to remove floatables and sanitary solids before the excess flow is released to a water course. The Waste Tech CSO screen is designed with 4 mm mechanically cleaned bar spacings to prevent floatables bypassing the screen and retaining the solids which pass on to the wastewater treatment plant. This low cost, low maintenance CSO screen is a guaranteed solution to pollution of our waterways, rivers, canals, streams, and lakes.

SPECIFICATIONS

Raked Bar Screen with 4 to 12 mm spacing

Screen frame and bars manufactured from 304 stainless steel electro-polished

Screen comb manufactured from polypropylene

Flow rate: 400 l/sec/m² (effective screening area)
(10 gallons/sec/ft²)

Velocity through screen: 0.9 m/sec (3 ft/sec)

Screen drive is via a double acting hydraulic cylinder mounted above the screen, manufactured in 304 stainless steel and chrome plated, with self sealing end seals.

Rod diameter: 25 mm (1.0 inch)

Body diameter: 50 mm (2.0 inch)

Directional control is achieved via solenoid operated directional control valves coupled to two pressure switches.

Operation pressure at 735 psi

Pressure relief valve set at 1102 psi

Minimum operating pressure for hydraulic pump at 588 psi

Hydraulic oil is biodegradable synthetic vegetable type

ADVANTAGES AND BENEFITS

Reinforced screen bar structure

*No pretensioning – no bar sagging
No bar pinching of the tines*

Dual-directional screen cleaning

*Cleans screen area 6x minute at 10 FPM
Solids positively discharged every 24 inches*

Dual weir overflow

*Reduces headdress
Shorter weir requirements*

All stainless steel components

(Except cleaning combs of Tivar)

Extensive combined sewer experience

*Heavy solids load vs. snowmelt or SSO
Core business is water and wastewater*

American manufacture

*Parts and service locally
Locally sourced components*

Horizontal design

WTI offers screen openings of 4, 6, 8, 10, & 12 mm

Conservative design

*3 FPS velocity on clean water
6 FPS velocity at 50% blinding factor
More screen area for the heavy solid loads*

Lower HP requirements

*Hydraulic cylinder centrally mounted
Better mechanical advantage
1.5 HP required to operate*

No integral overflow weir

*Horizontal screen uses full effective area
No grit buildup and excess wear of tines
Lubrication not required on horizontal area*

Serviceability

*Special access walkway not required
Can walk on screen with vertical bars*

For more information call **864.576.0660**
or visit **kusterswater.com**

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