

SediCon Gravel Excluder

Gravity-powered sediment removal for intakes with no production loss

How it works

- Fixed intake system designed to keep intakes clean of sediments.
- Suction-head design removes sediments up to the size of the pipe while preventing blockage.
- Outlet can be a valve, a gate or an open siphon, depending on project conditions.
- When configured with an open siphon, operation starts automatically as water level rise.



Principle sketch



Laxà III, Iceland

Why it matters

- Uses only surplus water – no production loss.
- No moving parts in the system itself supports high reliability and low maintenance.
- HDPE construction provides strong abrasion resistance and corrosion-free performance.
- Custom design and production allow adaptation to existing intake structures and site requirements.



Removes rock up to the size of the pipe

Environmental benefits

- Gravity as driving force
- Removes sediments during floods when natural transport is present
- Maintains biological and morphological balance in the river
- No fossil fuel input, and very low carbon footprint
- Low-maintenance design supports long service life

Best used when

You need a robust intake-cleaning solution that operates automatically and removes large sediments with minimal maintenance.

For more than 30 years, SediCon has developed and supplied proprietary sediment handling technologies from Trondheim, Norway. Our solutions for reservoirs, intakes, desanders and tunnels have been successfully implemented in hydropower projects in more than 20 countries across five continents.