

## HydroEddy Mosbaek Flow Controls

Free from external energy,  
no moving parts

## The Challenge

Flow regulators reduce stormwater discharge from overflow structure, drainage catchments, etc. in order to protect wastewater treatment plants from overloading. Subject to high mechanical forces, these regulators have to be of simple but robust construction. For several decades now vortex flow controllers have proven their reliable functioning. The centrifugal principle ensures a limited flow and the flushing surge is effective against plugging in the device. Lack of moving parts proves a further attractive feature for many operators.

## The Solution

Steinhardt have more than 35 years of experience in design and manufacture of flow regulation controls.

**HydroEddy flow controls** work on the principle of the centrifugal forces created in the form of a vortex. The high resistance created acts to brake the discharge. Inlet and outlet orifices are of a large dimension which assists in preventing blockages. When the water level falls, the centrifugal effect tapers off and the released flow acts as a self-cleaning mechanism for the structure.

## Areas of Application

**HydroEddy flow controls** can be used to limit flows in stormwater and retention structures or weirs, in continuous flows to sewage treatment plants, pumping stations and also in oil and coalescence separators. Unused storage capacities in pipelines can be utilised and erosion prevented in receiving waters by reducing flow rates.

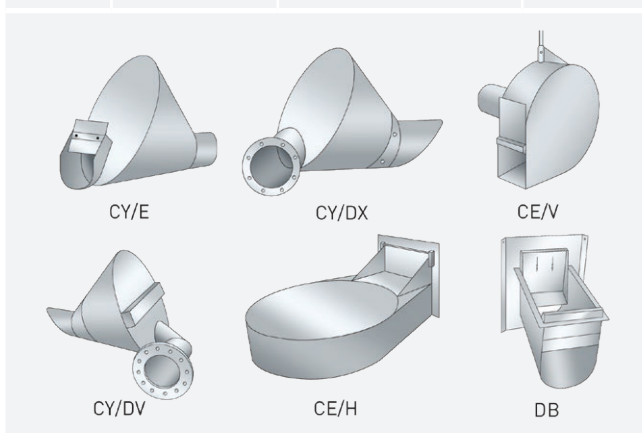
**HydroEddyflow controls** can be installed wet, semi-dry or dry and equally in combined sewage, stormwater or sewage discharges. They have no moving parts and installation in existing structures is an uncomplicated matter.

A competent overview of the individual hydraulic situation and the selection of the most suitable vortex controllers form the basis of reliable discharge regulation.

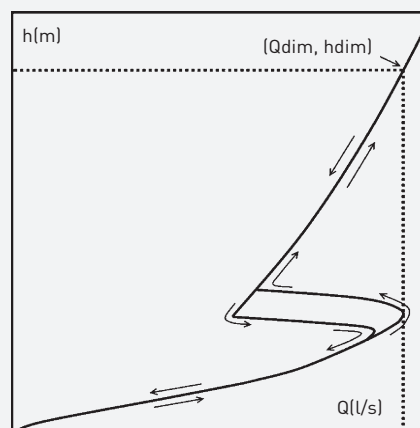
**Steinhardt and Mosbaek** engineers, with their long years of experience, can offer designers and operators advice and support with existing and new projects.

Selection table

Type	Installation	Medium	Capacity [l/s]
CYE	wet	all types of discharge	8–600
CEV	wet	stormwater, industrial discharges	0.2–200
CYDV	semi-dry/dry	all types of discharge	20–500
CEH	sem-dry	mixed sewage	4–30
CYDX	semi-dry/dry	all types of discharge	25–600
DB	wet	all types of discharge	30–10.000



Flow characteristic



The Advantages

- no moving parts so low on maintenance
- installation without invert step possible
- adjustable to other discharge rates, depending on type
- no external energy source required
- simple, robust stainless steel construction
- easy and fast mounting
- retro-fittable