



## Slide gates and one-way flaps for any purpose:

- Water cleaning plants
- Rain water reservoirs
- Storm water
- Run-off
- Wastewater
- Hydropower
- Sewer drain
- Water inlet/outlet
- Pump stations
- Water pipes





# Slide gates and one-way flaps

Gerhardt Christensen A/S offers a number of different types of gates used for regulating and blocking in lakes, reservoirs, tanks etc. There are a number of deciding factors at play when selecting the right solution, e.g. size, pressure, tightness, functionality, operation, service and more. We therefore place importance on providing the best advice to our clients before they choose a solution. In many cases

we are "in the field" to analyse conditions and compare wishes and requirements for the solution.

The design principle for our non-return flaps is a flange and a dome-shaped front. The dome-shaped front or flap is suspended in bronze bearings. The seal is a neoprene lip seal.

## One-way flap with elbow

Avoiding sea grass, sand, stones and debris.

Place: Holbæk fjord – Denmark



## Safety against reflux

One-way flaps Type KV 60

Sealing ring prevents reflux.

Place: Horsens Water cleaning plants – Denmark



One-way flaps Type KV 110

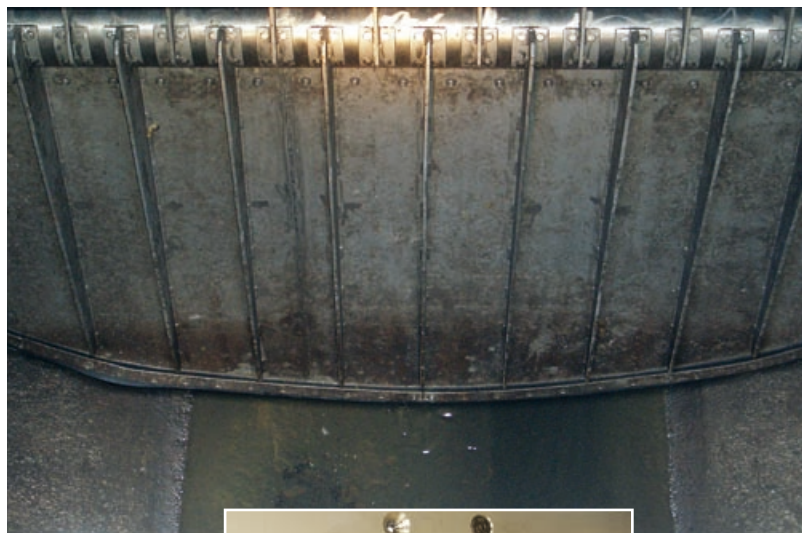
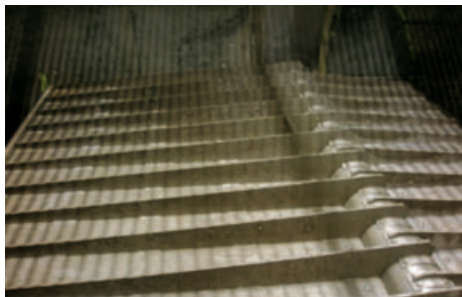
Place: Frederikshavn Port



## Pivot gates

Pivot gates mounted hydraulic with horizontal shaft and bearings of bronze. Width 4 metres.

Place: Lersøgrøften and Vestagervej, Copenhagen



## Slide gates

Slide gates mounted with Auma gear, up to width of 6 meter.

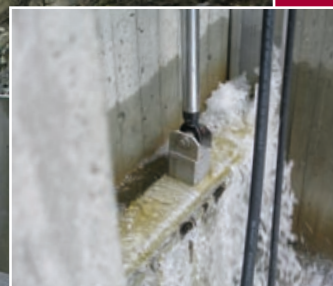
Place: Damhusåen, Copenhagen





# Hydropower – slide gates

Gerhardt Christensen has since 2007 delivered solutions to hydropower projects in Norway. The slide gates has been delivered either with hydraulic or manual driving wheel for opening. Gerhardt Christensen has delivered slide gates with water pressure up to 35 water column.



Hydropower slide gates for adjustment of water level in water chamber before turbine – mounted with manual handwheel for opening.

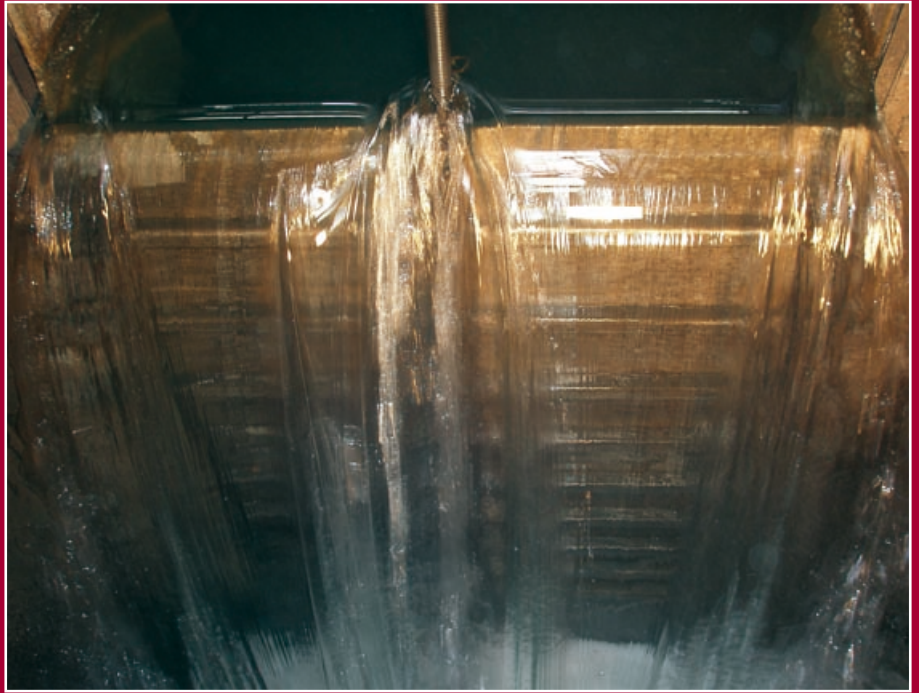




## One-way flaps Type 7.3

With 3-side sealing ring.

Place: Jessens Mole, Svendborg



## Circular one-way flaps Type KU

Circular one-way flaps on existing Passavant flange.

Place: Hellerup, Copenhagen

## Square one-way flaps

Square one-way flaps, 4 pcs.

Dimensions up to 2,5 meter.

Place: Tuborg port, Copenhagen.



Flange with bolt for adjustment of one-way flaps

## Gerhardt Christensen A/S

In addition to its extensive range of slide gates and one-way flaps, Gerhardt Christensen also supplies a number of different types of covers made for roadways, tunnels, airports, metros, train platforms, underground parking facilities/ multi-storey car parks, anti-terrorist protection, etc. Solutions from Gerhardt Christensen are

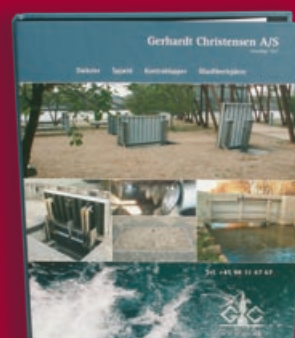
tailored to meet individual demands for functionality. Our engineers have considerable experience in calculating and dimensioning projects to satisfy regulatory standards and requirements with regard to strength, the environment and durability under extreme conditions.



All solutions are thoroughly tried and tested prior to final handover. Thanks to many years' experience of dealing with numerous tasks in the areas of environment, clean water, and sewage, we are confident that we will not meet any challenges that we are unable to solve.

We frequently act as advisors and partners with respect to the development of completely new solutions, where experience and creativity are critical to ensuring a successful outcome. Therefore please contact us if you are in doubt as to whether your plans can be realised.

You are also welcome to visit us at [www.gc.dk](http://www.gc.dk) or to order additional brochure material.



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