

## Fish Friendly Pumping Korftlaan Delft

Application market	Construction
Market segment	Dewatering & Drainage Flood Control
Pumped medium	Surface water
Pump product	Immersible
Country	Netherlands



### Challenge

In the past, windmills had drained the land, later the task was done by a dry installed pump with a vacuum system. With this previously used pump of a competitor, safe passage could not be guaranteed for the existing fish, maintenance costs were high and the people in the neighbourhood complained about high noise.

### Solution

Thanks to its outstanding properties in gentle handling, the Hidrostat Screw Centrifugal Pump actually ensures fish-friendly operation. The single blade pump impeller with a large free passage of 180 mm and a relatively low operating speed of 560 rpm meets two of the most important criteria for fish-friendly pump operation. The internal cooling circuit of the submersible motor ensures efficient and reliable operation even in dry ambient. The completely underground system reduces noise emissions and ensures an undisturbed people's life above ground in this busy part of the city.

### Benefits

With the installed pump solution, a safe passage from inland waters to the sea is ensured for the fish. Due to the high reliability of the pump and the relatively low average operating time of only about 800 hours per year, the pump only needs to be lifted for inspection every 5 years. The expected service life of the pump is about 35 years, which contributes significantly to the overall low life cycle costs of the pumping station.

Quantity of units sold	2
Pump type	I16K-SS1 + IEVSA-G
Motor data	22 kW / 10 pole / 50 Hz / 400 V
Material combination	Cast iron pump body and wear parts with ductile iron impeller
Duty point	Flow : 310 litres per second / Head : 3.5 meters (at shaft speed 560 rpm)
In operation since	January 2019