

Fish Friendly Pumping Friesland

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



Challenge

A reliable and absolutely fish-friendly pump is required for land drainage via the channel systems widely used in Holland. Fish-friendly here means a pump impeller geometry suitable for gentle handling, with large free passage and low operating speeds.

Solution

The Hidrostal Screw Centrifugal Pump allows fish-friendly operation. With Hidrostal's high efficiency, the required performance can be provided with only one pump, where other manufacturers require two pumps of the same size. This again reduces the total costs for the building project and the necessary installations. Supply line from the canal to the pump and the pump itself are far enough away from the canal and hidden behind the concrete structure. This ensures ice-free and safe pump operation even at temperatures below freezing and with icy winds.

Benefits

The pump must only be lifted once every 5 years for inspection. The estimated service life of the pump is approx. 40 years. Designed as a concrete structure and without the use of wood, the total life of the pumping station is laid-out for 80 years. This means that the pump would only have to be replaced once during the entire operating time of the site.

Quantity of units sold	1
Pump type	I16K-HD1 + IEVSC-G
Motor data	18.5 kW / 12 pole / 50 Hz / 400 V / Immersible
Material combination	Cast iron pump body and wear parts with ductile iron impeller
Duty point	Flow : 250 litres per second / Head : 2.8 meters (at shaft speed 435 rpm)
In operation since	December 2018