

Sewage Pump Station Lemvig, Thyboron

Application market	Wastewater
Market segment	Wastewater Collection, Industrial Wastewater
Pumped medium	Raw, unscreened wastewater
Pump product	Bearing Frame
Country	Denmark



Challenge

The pumping station feeds domestic sewage from the surrounding quarters of the town of Lemvig, as well as sewage from a nearby fish factory, to the municipal sewage treatment plant. The wastewater flows into a deep, underground pump sump with a level of up to 6 metres. A reliable, independently operating pumping system, including a simple method to lift the pumped medium out of the pump sump with considerable depth, was required.

Solution

Two Hidrostal Screw Centrifugal Pumps with large free passage easily handle the load. To overcome the large suction head, the station is equipped with an ejector system, the level in the pumps is monitored electronically. When the pumps switch off, the pressure-side gate valve closes and completely seals off the pump and suction-side piping system. If the sump level drops, the ejector raises the pumped medium until the required level is reached again, the pump can start, and the pressure-side gate valve opens.

Benefits

The pumps including the ejector system were supplied and installed by Hidrostal, and the task was completed to the customer's full satisfaction.

- Integrated solution from a single source
- The "low-tech" solution allows simple and yet reliable operation

Quantity of units sold	2
Pump type	H05K-MH1R + HGM1X-G250
Motor data	IEC frame size 250 / 55 kW / 4 pole / 50 Hz / 400 V with VFD
Material combination	Cast iron pump body and wear parts with ductile iron impeller
Duty point	Flow : 100 litres per second / Head : 32 meters at 1480 rpm
In operation since	2012