

BP Pumping Station Europoort Rotterdam

Application market	Industry
Market segment	Oil & Gas Industrial Wastewater
Pumped liquid	Industrial Wastewater Containing Oil
Pump product	Bearing Frame with Prerotation system
Country	Netherlands



Challenge

One of the most important inlet pumping stations for raw, unscreened and oily wastewater in the BP production plants on the Europoort Rotterdam site had to be renewed. The customer's main requirements were the use of a pump with ATEX approval, applicable in potentially explosive atmospheres and a low-maintenance system that prevents solids from settling in the storage basin and removes the floating oil layer. The pumps should be installed dry and in a cellar with limited space.

Solution

Use of six non-clogging Hidrostat Screw Centrifugal Bearing Frame pumps with large free impeller passage and ATEX approval. The pumps are equipped with the patented Prerotation system, a standard Hidrostat accessory that prevents sedimentation in the storage basin and easily removes the floating oil layer. The wetted parts are completely made of Duplex stainless steel.

Benefits

Nearly maintenance-free, self-cleaning pump system without additional costs for the separation of the existing oil. The customer's requirements for explosion proof, reliable, user-friendly and cost-effective operation and maintenance were met completely and satisfactorily.

Quantity	3	3
Pump type	F06K-H06 + FGM6F	H08K-H06 + HGM6F
Motor data	30 kW / 1'500 rpm / 50 Hz	110 kW / 1'500 rpm / 50 Hz
Material combination	Impeller and all wetted parts of Duplex stainless steel	
Duty point	Flow : 76 litres per second Head : 22 meters	Flow : 166 litres per second Head : 32 meters
In operation since	2013	