

1510 Seal provides quick and easy upgrade from packed pump

Chemical
Product: Chesterton 1510
 Case Study 2209141MSD

Challenge

Background

A processor of chemical waste streams in the Netherlands was looking to improve the sealing of pumps handling a wide range of wastewater classified as hazardous waste because of its nature or composition.

Previously, packing was used to seal these pumps.

Waste streams vary in temperature from 20°C to 80°C at pressures up to 10 bar. Operation is start/stop (demand based)



Denver Orion 75/50 Centrifugal pump.

Solution

Product

The 3 gland bolt pattern of the stuffing box made it difficult to upgrade this pump to a mechanical seal without major modifications. Because of the design with gland tabs, a **Chesterton 1510 60mm TC/TC Kalrez 6375** was installed to fit the 3 bolt pattern avoiding the need to make modifications to the pump itself.

A Chesterton Connect was installed along with the seal to monitor seal and pump performance.



1510 installed with Chesterton Connect monitor

Results

Increase Reliability

The **Chesterton 1510** has been installed in 2022 and has been running reliably ever since. The Chesterton Connect is monitoring the pump and to alert the operator of any issues that may occur as waste streams and operation varies over time.



Chesterton Connect Mobile app collects equipment data for operator review