

Split Seal + SpiralTrac[®] Solution Reduces Maintenance and Water Use

Water and Wastewater Industry Chesterton 442 and SpiralTrac[®] Mechanical Seal Case Study

Challenge

Background

A wastewater treatment facility has 10 RAS (Return Activated Sludge) solids handling pumps. These pumps have been sealed using packing and replacement sleeves for several years with major leakage and premature sleeve wear (due to packing abrasion).

The customer was looking for an easy way to install solution that would increase Mean Time Between Failure (MTBF) and reduce downtime/repair costs.

Solution

Product

The packing was replaced on one trial pump, with a Chesterton[®] 442 Split Seal (4.500") with RSC/RSC faces and FKM elastomers. A SpiralTrac[®] split active throat bushing was also installed to reduce flush water requirements.

This solution was proposed for easier installation (no need to dismantle the pump), longer run time, and greater MTBF.

Results

Increase Reliability

After a few months of leak-free operation, the customer was very pleased with the performance and converted the nine remaining packed pumps with 442 Split Seals (4.000") with SpiralTrac units.

Maintenance, downtime, and the safety issues caused by leakage were greatly reduced.



Sludge around the base of the packed pump.



Chesterton 442 (4.500") with SpiralTrac.



Chesterton 442 Split Seal resulted in increased reliability and a reduction in flush water usage.

SpiralTrac® is a registered trademark of Enviroseal Engineering Products Ltd.

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only. AW. Chesterton Company disclaims all warranties expressed or implied, including warranties of merchantability and fitness for a particular purpose. Liability, If any, is limited to product replacement only. Any images contained herein are for general illustrative or aesthetic purposes only and are not intended to convey any instructional, safety, handling or usage information or advice respecting any product or equipment. Please refer to relevant Safety Data Sheets, Product Data Sheets, and/or Product Labels for safe use, storage, handling, and disposal of products, or consult with your Iccal Chesterton sales representative.

A.W. Chesterton Company 860 Salem Street, Groveland, MA 01834 USA © 2022 A.W. Chesterton Company

[®] Registered trademark owned by A.W. Chesterton Company

in USA and other countries, unless otherwise noted. CHESTERTON.COM