

CASE STUDY

WASTEWATER INDUSTRY

Mechanical Seals

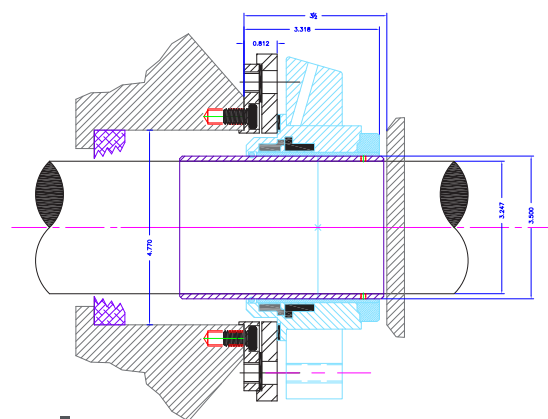
Enhancing Performance and Ease of Maintenance in Wastewater Pumps

Product Solutions: Chesterton® S10 Cartridge Seal and SpiralTrac® Version N Type I



Challenge

A pump was originally equipped with a component seal, which the customer wanted to upgrade to a Chesterton® cartridge seal for improved reliability and ease of maintenance. The existing component seals were difficult to replace and prone to performance issues. Due to the complexity of the stuffing box design, a custom two-part adapter plate was required to facilitate the transition from the component seal to a cartridge seal.



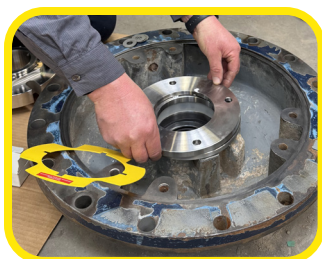
Results

The pump is now operating smoothly with no leakage, and the facility plans to convert the remaining pumps to the same sealing arrangement. The Chesterton® S10 cartridge seal has consistently demonstrated reliability and effectiveness across a wide range of applications, including demanding wastewater environments. This installation further reinforces its proven performance in challenging sealing conditions.

Solution

The maintenance team at the wastewater treatment plant preferred Chesterton® S10 cartridge seals due to their consistent reliability and requested that this proven solution be used for the upgrade. Given the abrasive and dirty nature of the process fluid, we also recommended incorporating a SpiralTrac® device to enhance solids removal and improve seal performance.

The final solution included a Chesterton® S10 (3.500 inch, SSC/SSC, FKM) paired with a SpiralTrac® Version N, Type I, providing a robust and efficient sealing system for the demanding application.



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