



Summary

Industry: Utilities
Application: Settling Tank Drives
Actual Saving: £
Payback Period:



Fenner Reliability Solves On-Going Problem

Fenner GT Integrated Motor Provides Reliable, Accurate Speed Control

ISSUE

A major Water Utility Company was experiencing serious reliability issues with six variable speed worm gear motor units, installed in a Water Treatment Works in the North of England.

The mechanical variable speed elements of the drive train were consistently failing causing unacceptable downtime and threatening the water quality. The main gearboxes were also leaking through the output seals, causing potential water contamination and a safety hazard.

SOLUTION

ERIKS were contacted and visited the customers site on two occasions to fully understand the application requirements. Six new Fenner Series K Helical Bevel Helical units were specified. These were supplied with the output flange and shaft having the same dimensions as the existing units, thus minimising the installation work required. Double viton seals were also fitted to the output line.

The customer was not happy with the original mechanical variable speed control, but an added complication that no additional electrical wiring could be undertaken at site, ruled out installing inverters.

The gear units were fitted with the Fenner GT integrated motor, eliminating additional electrical connections, but providing the required individual speed control, important for the process, by the use of a calibrated control knob mounted on the motor.

OTHER BENEFITS

- Dry Fit Gearhead
- Standard IEC motor connection
- Interchangeable fixing dimensions
- Highly efficient drive - 95%

FURTHER COMMENTS...

The new drives could be installed with the minimum of disruption and additional machining. The replacement Fenner units are much more efficient than the existing double worm units, saving at least 20% in electricity consumption.

MORE INFORMATION

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