

Case Study: Monitoring Pressure on Pumps & Pipelines



Industry
WATER/WASTEWATER



ONE SERIES
1XSWLL

CHALLENGE:

Lystek uses their Thermal Hydrolysis to take raw bio-solids and product pathogen-free fertilizers for farming. This eliminates disposal costs for the transport and storage of the bio-solids typically produced by animals or from raw sewage. These fertilizers can then be used in agriculture at local and commercial farms. As part of the process, Lystek uses annular seals (Red Valve) due to the viscous nature of the media (wastewater solids). The material in the pipe is bioactive and releases gas over time, which increases pressure within the skid piping creating a rupture hazard. Additionally, the activated sludge can clog instrumentation over time, creating false pressure indications.

SOLUTION:

Lystek chose the One Series smart pressure switch for a few reasons. It is a simple, fast acting solution to stop the process when pressure becomes too high. The Plugged Port combined with the IAW® diagnostics give confidence that the switch is operating as expected, and the process pressure is not isolated from the One Series sensor do to material in the port. The HART® capability will also provide capabilities of monitoring data to governments for future projects.



Protecting employees
and assets



Fast and easy
deployment



Reduces risk by
constant monitoring