



OverWatch™

Direct In-Line Pump System



Changing the world one wet well at a time



product spotlight wastewater

Pump system designed to make the wet well obsolete

By Craig Mandli

The vast majority of maintenance issues in lift stations originate in the wet well. Grease, “flushable” wipes, rubber material and an assortment of anything and everything that enters the system can clog pumps at this point in the treatment process, creating maintenance issues on a regular basis.

The **OverWatch Direct In-Line Pump System** from Industrial Flow Solutions tackles those challenges in wastewater pumping lift station management head-on. The system lifts influent at the point of entry, eliminating the need for a wet well. Effluent is contained, eliminating odors, and reducing maintenance. The stainless-steel body is designed to withstand the effects of corrosion from harsh materials and solutions, making OverWatch a solution for municipal and industrial headworks applications.

“Traditional wet well systems retain water and are plagued with odors and dangerous hydrogen sulfide gases. These conditions pose health hazards for people and cause concrete walls to erode over time,” explains Jim Huck, business development manager for Industrial Flow Solutions. “OverWatch converts an existing wet well into a dry and odorless machine room, providing safe environment for wastewater professionals to interact with the pumping system. Influent is contained in the pipeworks, never becoming atmospheric. Hydrogen sulfide is eliminated.”

In essence, the system performs all the functionality of a traditional lifting station without the need for additional equipment. Specifically designed to absorb the air/fluid mix flowing in from the gravity lines, it operates by variable-speed drives, using a sensor at the inlet combined with control panel logic to adjust in line with the incoming flow, eliminating hydraulic surges while automatically adapting to constantly changing flow rates. This operating mode enables materials to move through the system without causing blockages and provides a long-term durable solution, with minimal need to replace, repair or maintain the wastewater system. An intelligent controls algorithm makes OverWatch suitable in applications where process pumping could change drastically. Utilizing a liquid level transducer to understand the incoming flow rate, the system adjusts its performance in real-time. The system has been installed in over 2,000 facilities around the world.

“The system can be used in any application where there is a need improve safety concerns and conditions, eliminate odor or reduce energy consumption,” says Huck. “With the increase in ragging, FOG, and odor concerns, the OverWatch successfully reduces the impact of these issues. Each system is factory wired and tested before delivery.”

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