

ProFlow Partners with Pharmaceutical Therapeutics Company to Help Ramp Up Production of Precursor Chemicals



APPLICATION

Precursor Chemicals in Therapeutic Drug Manufacturing

CHALLENGE

A U.S.-based pharmaceutical therapeutics company needed to increase production of precursor chemicals in one of their manufacturing facilities. They specifically needed a supplier with experience in the development of scaled-up fluid processing systems with complex characteristics.

As is often the case with pharmaceutical precursors, the chemicals were volatile and dangerous. They needed to be handled safely and metered precisely to match the customer requirements. An added challenge was that there were space constraints in all three dimensions that limited the size of the finished, installed skid.

SOLUTION

ProFlow's engineers worked with the customer to design the system, specify components and materials, and fabricate the finished system. ProFlow's extensive fabrication certifications and highly trained fabricators were up for the challenge.

THE SYSTEM

The final system included 316 polished stainless steel frames, Hastelloy C276 pumps and piping, special pumps, and the complex instrumentation and controls to operate the system.

“ We’ve been working in the pharmaceutical industry since 1986. Our customers choose us due to our ability to produce complex equipment that meets exact requirements. ”

— Chris FitzGerald, President, ProFlow Inc.

Key suppliers include:

- Waukesha pumps
- Gather pumps
- Lenze drives
- Emerson Micro Motion
- Yokogawa pressure transmitters
- Vega level transmitters

SUMMARY

In 2022, a post-pandemic surge hit the US chemical industry, and many chemical companies increased production. In response to this surge, a pharmaceutical therapeutic customer wanted to ramp production of precursor chemicals. Needing a partner who was experienced in the industry, as well as with complex engineering projects, they turned to ProFlow.

ProFlow is equipped to handle volatile chemicals and complex requirements of fluid handling systems. We helped the customer by:

- Developing project scope and ensure the schedule was followed to successful completion
- Creating a design that ensures high sanitary and safety standards
- Ensuring quality control through all stages of the project
- Testing the completed system and providing thorough documentation to ensure operational success
- Offering installation and commissioning support



ABOUT PROFLOW

For more than 30 years, ProFlow has delivered turnkey engineered projects and modular fluid systems to process industries including chemical, biopharma, pulp & paper, and personal care, and ProFlow’s products are now operating in over 30 countries worldwide.

We have a proven record of managing complexity by assessing the requirements of our customers, and translating them into solutions that deliver long-term value. ProFlow’s highly skilled engineers, fabricators, and technicians, based in North Haven, CT, manage their work to conform to ISO9001:2015, and ProFlow has high-level fabrication certifications from ASME, NBBI, and UL.