

CPI BIOTECH

“ CPI BIOTECH IS A PIONEERING COMPANY COMMITTED TO HELPING CUSTOMERS SOLVE COMPLEX CHALLENGES IN THE BIOPHARMACEUTICAL SECTOR. WORKING WITH LIKE-MINDED SUPPLIERS IS CRITICAL TO OUR SUCCESS AND WHY A PARTNERSHIP APPROACH IS SO IMPORTANT TO US. ”



As a leading manufacturer and provider of single-use assemblies and Advanced Bioprocess Skids to the Biopharmaceutical sector, having reliable and service-oriented suppliers is critical to CPI Biotech. PSG Biotech has provided a dependable ongoing service to support CPI Biotech's continued growth, helping to enable the successful delivery of complex Biopharmaceutical processing technologies to its customers.

WHO:

CPI Biotech, Cork Ireland

CHALLENGE:

Accurate Flow Measurement in Single-Pass TFF process skids despite changing product concentration

SOLUTION:

PSG Biotech™ SumoFlo® Single-Use (SU) Coriolis Mass Flow Meters

ABOUT CPI BIOTECH

CPI Biotech, a division of CPi Technology, is a specialist engineering company based in Cork, Ireland, providing leading single-use bioprocess technologies to some of the largest biopharmaceutical companies in the world.

CPI Biotech is a private limited company – with a personal and client-centric approach. CPI Biotech is committed to helping customers solve complex challenges in the biopharmaceutical industry.

SINGLE-USE ASSEMBLIES

Single-use manifolds are used by CPI Biotech customers in upstream and downstream processing and through fill/finish applications during routine GMP production activities. All assemblies are manufactured by CPI Biotech in an EN ISO 14644 Class 7 cleanroom facility operating under cGMP guidelines, using only USP Class VI and animal-derived component-free (ADFC) component materials. Single-use assemblies are supplied sterilized by gamma irradiation and ready for immediate use.

SINGLE-USE BIOPROCESS SKIDS

CPI Biotech designs and builds fully automated Bioprocess skid systems for upstream and downstream single-use applications. CPI Bioprocess systems utilize completely disposable flow paths and incorporate advanced, single-use instrumentation and sensors to control and monitor key process parameters including temperature, flow, pH and pressure.

CPI BIOTECH'S PRODUCT RANGE:

- pH Adjustment Skids
- Depth Filtration
- Virus Filtration
- Media and Buffer Preparation
- Final Filling Skids
- Storage Bins and Assemblies
- Smart-Carts - Multipurpose
- Mobile Processing Station
- Customized Single-Use Packages and Skids
- Virus Inactivation



According to **Adrian Giltinan**, CPI Biotech's success story is based on the following principles:



The customer comes first and their needs drive us and our company.

Our open architecture approach means we are completely flexible and adaptable. This flexibility means we can respond quickly to the changing needs of our customers and truly operate as partners in delivering high-quality single-use solutions.



PSG BIOTECH OFFERS A VALUABLE SOLUTION TO CPI BIOTECH

Innovation is in the DNA of CPI Biotech, which is why they collaborate with leading technology companies such as PSG Biotech. CPI Biotech not only rely upon PSG Biotech's SumoFlo® SU Coriolis Mass Flow Meters, but also its other world-leading products including Quattroflow® Pumps, and BioProTT™ Ultrasonic Flow Sensors.

■ CPI BIOTECH USES SUMOFLO® IN MULTIPLE APPLICATIONS

CPI Biotech is using the PSG Biotech SumoFlo® SU Coriolis Mass Flow Meters (1/8" to 1"), in single use process skids.

Typical applications are:

- Tangential Flow Filtration
- Depth Filtration
- Virus Filtration
- Purification

WHY CPI BIOTECH CHOOSES SUMOFLO®

The PSG Biotech SumoFlo® offers the following benefits:

- High mass flow measurement accuracy +/- 1%
- High flow range (turndown)
- Accurate measurement regardless of product changes in density, viscosity, and temperature
- Easy installation - no need for straight tube runs before and after the sensor
- Robust gamma irradiated sensors which integrate well in the SU flow path
- Accurate measurement of non-conductive fluids such as Water for Injection (WFI) ”





“ SINGLE PASS TANGENTIAL FLOW FILTRATION SYSTEM (SPTFF) FROM CPI BIOTECH

CPI Biotech has extensive experience and expertise in the development and delivery of critical bioprocessing applications for its global biopharmaceutical customers. In particular, single-pass TFF systems play a key role in improving manufacturing efficiency and productivity through the implementation of single-use technology. Such systems are central to the manufacture of lifesaving vaccines and critical therapeutics. With CPI's SPTFF technology, their clients can achieve process intensification, volume reduction, and continuous manufacturing through the implementation of their Single-Pass Tangential Flow Filtration systems.

CPI Biotech has used the PSG Biotech SumoFlo technology in their single-pass TFF systems to control the filtration process. The basic single-pass TFF underlying principle is that increased residence time in the feed channel results in increased conversion. Increased residence time can be accomplished by reducing flow rate or increasing path length in a serial configuration. The PSG Biotech Coriolis flow meters are capable of accurately measuring these ultra-low/high concentrated flows in a continuous single-pass TFF process. ”

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