



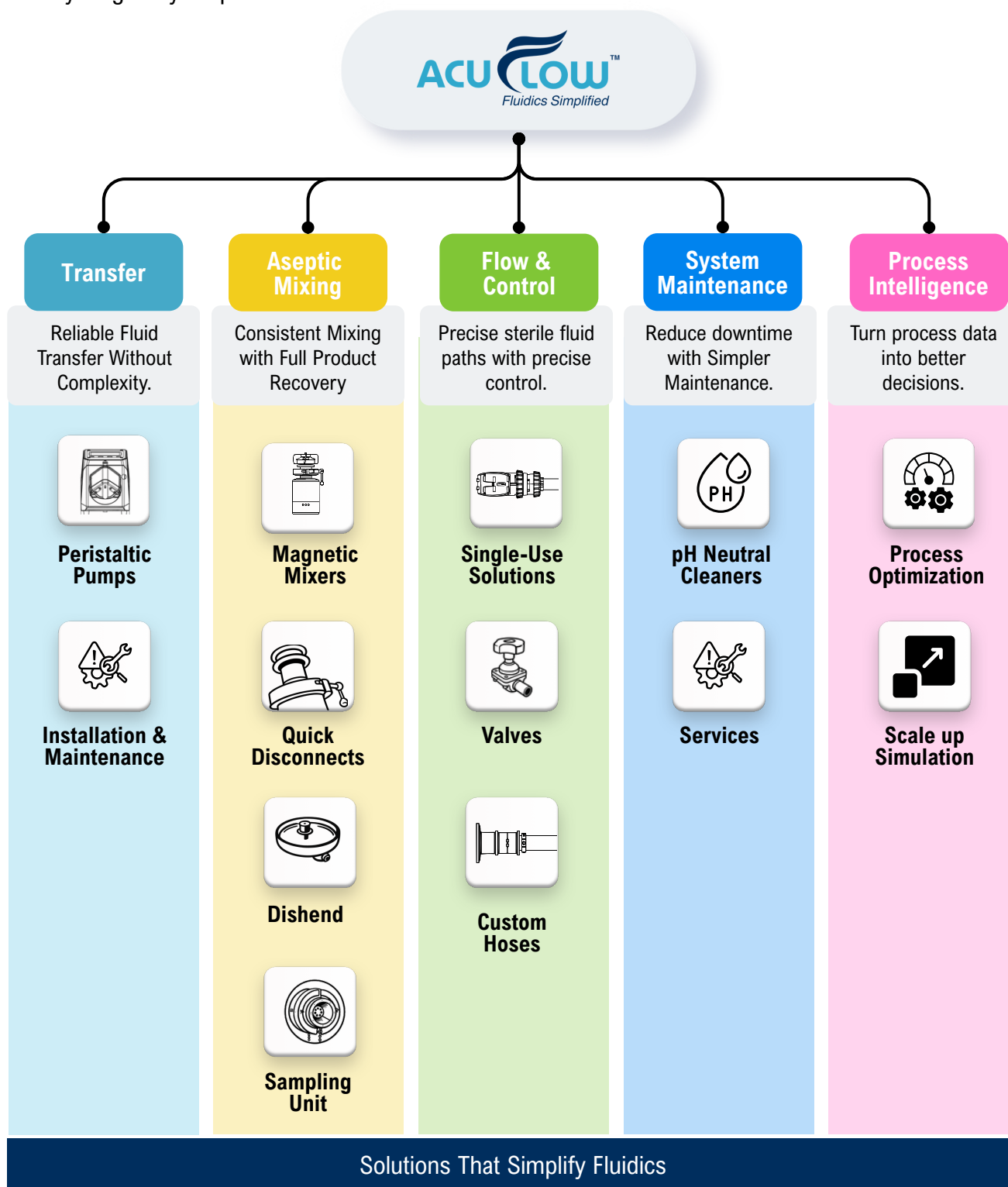
ENABLING
FLOW

FROM
LAB TO LIFE

acuflowbioprocess.com

SIMPLIFYING FLUIDICS - FOR PHARMA, BIOPHARMA & LIFE SCIENCES

Acuflow Bioprocess LLP delivers high-performance fluid handling solutions across pharma, biopharma, life sciences, and industrial applications. We bring together a mix of self-manufactured and global technologies along with local expertise to ensure purity, scalability, and compliance at every stage of your process.



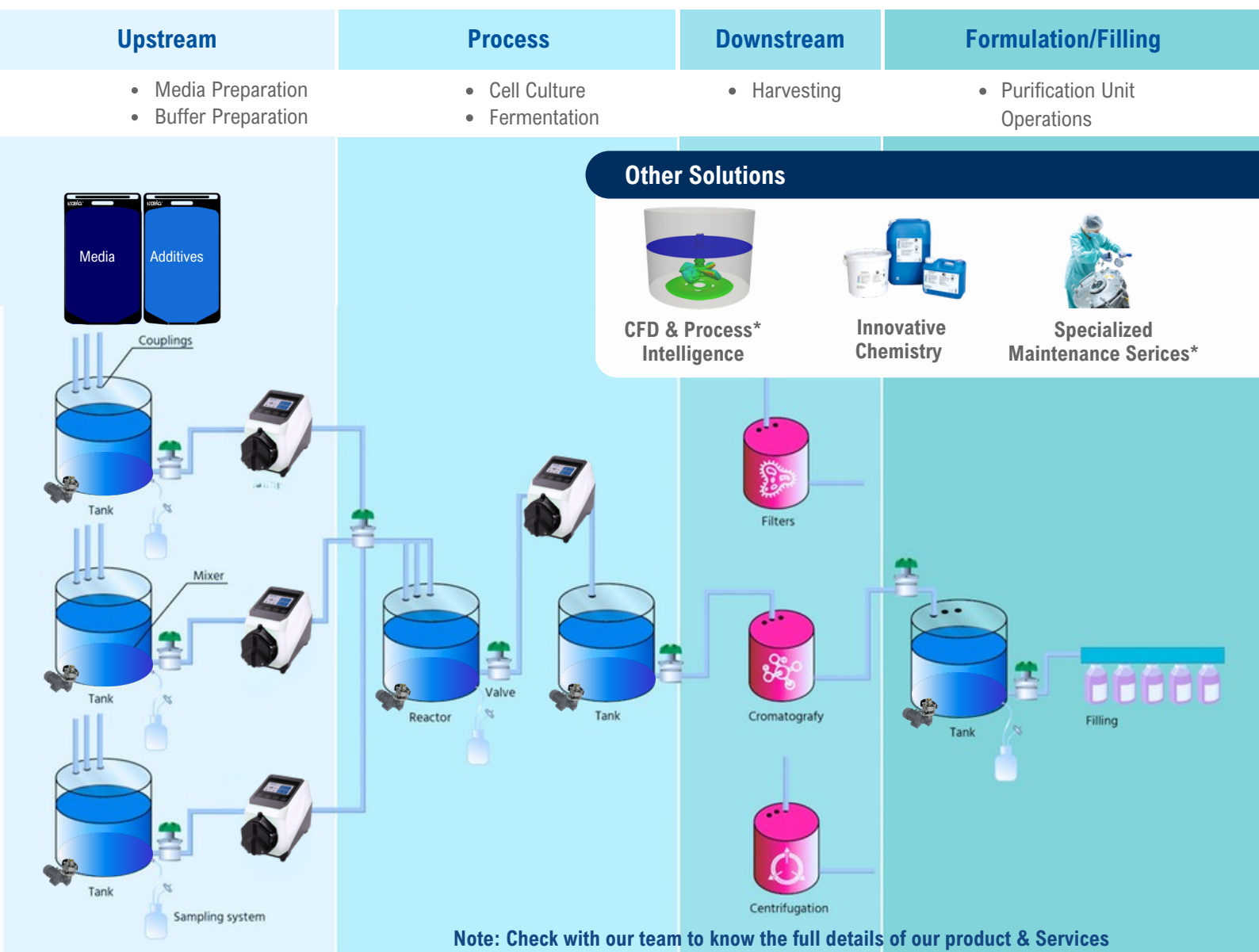
ELDON JAMES

CARTEN
FLOW SOLUTIONS - WE GO BEYOND



Global Innovation

Integrated across the Processes



Customer Benefits

- Global OEM partnerships + local application expertise
- Full regulatory compliance (ISO, USP, FDA, ATEX)
- End-to-end lifecycle support:
Consultation → Delivery → Validation
- Faster Time-to-Market through integrated, ready-to-use systems

Industries Served

- Pharma & Biopharma
- Research Academia
- Cell & Gene Therapy
- Food and Beverage
- Environmental and Others
- Industrial & Manufacturing
- Medical Devices & Diagnostic

Global Solutions
Combined with **Acuflow**
Bioprocess Expertise

**Unlocks Performance
in your Processes**

Precise Flow. Reliable Transfer.

From R&D labs to large-scale production, AcufLOW Peristaltic Pumps provide unmatched precision, flexibility, and reliability in fluid transfer. Built to handle sensitive, viscous, and sterile media, our pumps cover every scale and application:



MicroFlow Systems (MFS)

Compact, ultra-precise flow control for lab setups.

Flow Rate
0.0033-326 mL/min



LabFlow Systems (LFS)

Versatile, IP66-rated pumps with variable speed for controlled dispensing.

Flow Rate
0.0053-3100 mL/min



ProcessFlow Systems (PFS)

Rugged designs for continuous operation in manufacturing.

Flow Rate
0.00069-12 LPM



BulkFlow Systems (BFS)

High-volume, heavy-duty transfer for production scale.

Flow Rate
0.0019-28 L/min



HazardSafe Systems

ATEX-certified pumps for Explosive/ Hazardous Environments.

Flow Rate
0.0019-28 L/min



OEM Solutions

Pumps built to Seamlessly integrate and power specialized process equipment.

Flow Rate
0.0028-3100mL/min

AcufLOW Pumps are versatile across the entire value chain from Lab to Life. Contact us

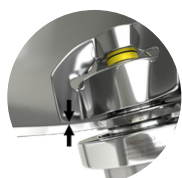
Know more:

contact@acufLOWbioprocess.com

Aseptic Mixing. Engineered for Purity

Acuflow integrates Kest bottom-mounted magnetic mixers, renowned for their aseptic performance and scalability. Designed for demanding biopharma processes, they ensure zero particle shedding, easy CIP/SIP compatibility, and energy-efficient operation.

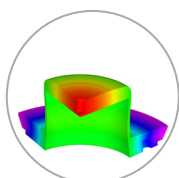
Why Kest?



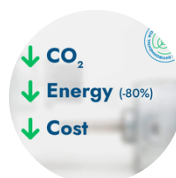
Full Product Recovery



Zero Particle Shedding



Tank Integrity Maintained



Energy Efficient



Complete Control

Scale-up with Kest

From small batches to large-scale production Kest bottom-mounted magnetic Mixers enable your processes



Small Batch

Production

Category	KMS	KMPF	KM	RM	HS
Volume range	≤ 200 L	≤ 1200 L	≤ 35 000 L	≤ 8000 L	≤ 1500 L
Application	Small-Scale Blending	Critical Pharma / Biotech	Large-Volume Blending	High-Intensity / Powder	High-Shear/ Homogenization
Material	SS / ZrO ₂ + SiC bearings	SS / ZrO ₂ + SiC bearings	SS / ZrO ₂ + SiC bearings	SS / ZrO ₂ + SiC bearings	SS / ZrO ₂ + SiC bearings
Speed sensing	Yes (1–10 V DC)	Yes (real-time)	Yes (integrated)	—	Yes (optional – revolution counter; 1 pulse/rotation)
Energy efficiency	Fan-less, low energy	> 95%, –80 % energy vs AC	—	—	—
CIP/SIP	Yes	Yes	Yes	Yes	Yes
Compliance	PED / ASME	PED / ASME	PED / ASME / ATEX	PED / ASME / ATEX	PED / ASME
Use zone	Lab / pilot	GMP Biopharma	Bulk Mix	Upstream / buffers	High Shear Mixing

Explore global standards of sterility, and energy-efficient mixing from Lab to Production scale.

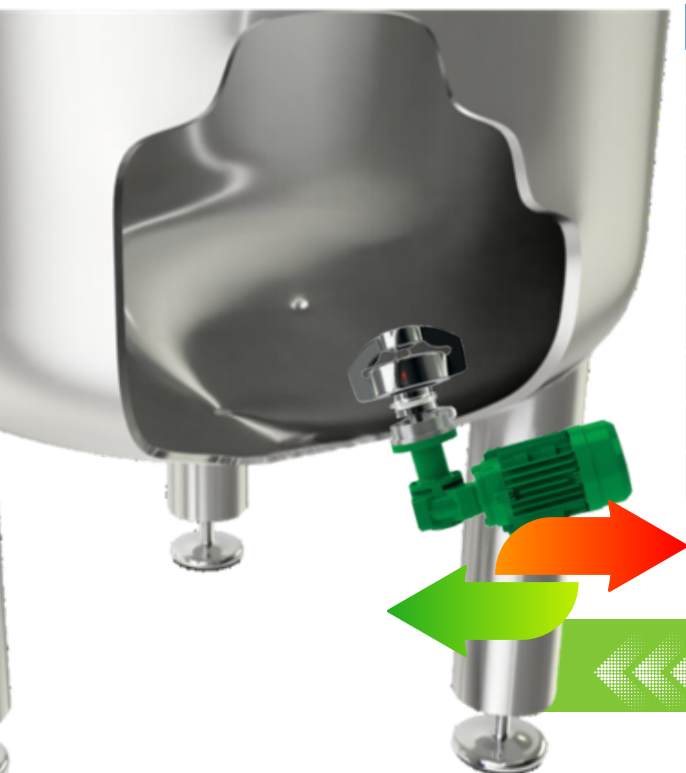
Know more:

contact@acuflowbioprocess.com

Unlock Performance without replacing your Existing tank

Upgrade your existing tanks effortlessly with the Kest Retrofit Program — a fast, cost-saving way to install magnetic-coupled mixers, boosting uptime and performance without full tank replacement.

Compatibility with Tanks across various Sizes



KEST SIZE	TANK PLATEGMP Mixer
0/3	-
3/7	GMP 50
7/20	GMP 100
20/70	GMP 500
70/120	GMP 1000
120/230	GMP 2000
230/600	GMP 5000
600/1300	GMP 10000
1300/2200	GMP 20000



ENGINEERED COMPONENTS THAT *ENHANCE PERFORMANCE*



MIXING HEAD

The mixing head features identical wing geometry that ensures compatibility with your validated mixing process.



MALE BEARING

Kest Technology's durable bearing uses Zirconium and Silicon Carbide for zero particle shedding. It also enables mixing to the last drop. Silicon Carbide option available.



TANK PLATE

The tank plate includes a special flange for the patented Kest-Lock quick connection, saving time during maintenance. Kest-Lock also allows flexible motor positioning, not limited to a fixed angle.



DRIVE UNIT

Choose from energy-efficient ProFlow, KM, or KM ATEX drive units. You can also add a smart speed sensor system to monitor rotation speed, direction, and verify mixing head installation.

Explore how you can upgrade the mixing performance of your Existing Tank

Know more:

contact@acuflowbioprocess.com

MixIT is the next generation collaborative stirred tank mixing analysis and scale-up tool designed to facilitate comprehensive analysis using lab and plant data, empirical correlations and advanced 3D CFD models. It combines knowledge management tools and mixing science in a unified environment deployable enterprise-wide.

Accelerate your Process Development, Scale-up and Improve Mixing Performance

Processes / Unit Operations	MixIT Solutions
Pharma / Chemical	
Blending	Mixing Time
Solid Liquid Operation	Solid Suspension, Cloud Height, Njs
Crystallization	Meso-mixing time, Particle size distribution, Heating/Cooling rate, and mixing of anti-solvents
Fermentation	Energy dissipation rate, Volumetric mass transfer coefficient, Oxygen transfer rate
Hydrogenation	Bubble size estimation, Gas distribution / entrainment rate
Emulsification	Shear rate & Energy dissipation, Droplet size distribution
Bio-reactors	Nutrient mixing, Gas distribution, Bubble size estimation, Strain-rate profile of Bio-reactor
Chemical	
Extraction	Droplet size estimation, circulation time
Polymerization	Particle size distribution, Heat transfer, P/V, etc.
Chlorination / Nitration	Bubble size estimation, Gas distribution / entrainment rate
FMCG	
Non-Newtonian Fluids Mixing	Product Quality Control / Estimation

Comprehensive Mixing Platform



Database Module

Create, update and share your geometry details, operating conditions, plant measurements, experimental & CFD data across multiple users globally.

Reaction Analysis

Design a reactor to achieve a desired mixing performance. Quickly select multiple reactors and compare their performance.

Automated CFD

From geometry creation to analysis to report generation, perform fully automated 3D CFD flow simulations for stirred reactors including tracer simulations and heat transfer analysis.

Accelerate process development and scale-up with confidence.

Know more:

contact@acuflowbioprocess.com

Key Features



Intuitive GUI



Shared Reactor Database



Empirical Correlations



Complex Impeller Library



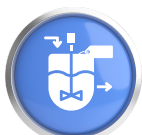
Full Automated CFD Analysis



Vortex Shape Predictions



Powerful Reports & Visualization Tool



Tagging Reactor Types, Configurations and Processes



Turbulence Models



Correlations Customization



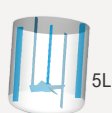
Custom Baffles



Fluid Rheology

Why MixIT?

Successful Scale-up Strategy & Improved Efficiency



LAB REACTOR
Impeller: PBTD-4



ORIGINAL DESIGN
Impeller: Paddle -4; RCI

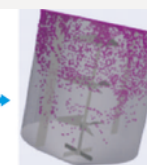
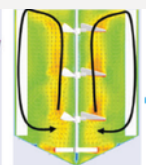


IMPROVED DESIGN
Impeller: Paddle -4;FBT;RCI

Powder Dispersion Studies via Design Changes

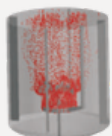


Secondary Circulation loop at near the liquid surface leads to poor dispersion of floating powder

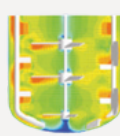


Change in impeller spacing lead to improved flow pattern. Improved power dispersion

Gas Dispersion Studies for Different RPM's



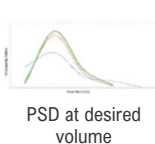
Mixing Analysis for Complex Impeller Geometries



Achieve Consistent Product Quality - Particle Size Distribution



PSD achieved at lab scale



PSD at desired volume

Vessels available at plant scale

....and more

Benefits of Using MixIT

- Reduce Total Cost of Production
- Connect the dots between Recipe, Process and Product Attributes
- Reduce Uncertainties during Technology Transfer
- Simulation time reduced from 2 weeks to 5-6 hours
- Accelerate scale up and technology transfer processes by troubleshooting mixing performance related issues
- Desired product quality achieved within existing geometries
- Archive and Share Organizational Knowledge

Accelerate process development and scale-up with confidence.

Know more:

contact@acuflowbioprocess.com



From Bench To Production: Scaling-up Bioprocess With Confidence

SimSight is an AI-powered process intelligence platform that blends physics-based simulation, historical process data, and advanced analytics to accelerate process development, scale-up, monitoring, and optimization.

SimSight's Data Science and Decision Support System helps **Bioprocess Engineers & Scientists**

1. Empowering them to understand

- The internal environment of the process equipment from an engineering standpoint
- The effects of process parameters (PP) on the internal environment of the equipment

2. Enabling them to

- Maintain the same internal environment across scales ensuring successful tech transfer.
- Understand how process changes impact the internal environment of the equipment

Why SimSight For BioPharma

- Advanced process insights readily accessible to biotechnologists and bioprocess engineers
- Single repository for knowledge about the internal environment of process equipment
- Powerful 'apps' for Bioprocess-specific use-cases
- Highly customizable based on your organization's needs

KEY FEATURES

App Environment

Deploy bioprocess-specific apps focused on use-cases like bioreactor scale up, MAb product dilution, MAb product pumping etc.

Knowledge Database

Seamlessly store fundamental insights about Bioprocess equipment for easy retrieval & reuse.



Analyze

Use dashboards to analyze process scenarios like Scale-up, process transfer etc.

Explore

Examine relationships between process parameters (PPs) & Process metrics (PMs) for various conditions

Curate

Check out the SUB Library for different SUBS and SUMS. See their shapes and how they work for easy reuse

Deploy

Develop and deploy browser enabled Python (Jupyter Notebook) applets to the Community

Visualize

Visualize flow and mixing patterns for various combinations of process conditions. Compare flow patterns for parameter analysis

Explore AI-powered process intelligence platform that enables processes from lab to plant scale.

Know more:

contact@acuflowbioprocess.com

BENEFITS

- **Scale-up Optimization:** Enhances scaling up processes.
- **Resource Efficiency:** Saves raw materials, resources, and time.
- **Understanding and Optimization:** Optimizes cell-culture environments by illustrating parameter impacts, aiding decisions, and ensuring scale consistency.
- **Knowledge Management:** Efficiently stores and shares process knowledge. Provides a database for critical insights on process equipment performance, improving collaboration and decision-making.

ACTIONABLE OUTPUTS



Extract & Efficiently Store
Science-driven knowledge generated via simulations



Identify Trends & Patterns
Using historical process data as fundamental knowledge



Deploy Knowledge Base
to support decision-making



Accelerates
Process and Product Development



Ensure Reliable Process
Formulate accurate Operations & Asset Utilization

SPECIALIZED APPLICATIONS

Scale-up of Bioprocess

CFD-driven insights empower engineers to optimize bioreactor scale-up conditions.

Connectivity to Data Sources

CFD and analytics reveal process impacts on product quality.

Digitalization of Process Equipment

CFD insights improve vessel mixing, guide decisions, and optimize processes.

MODULAR APPS



Blend Time Prediction

Predict blend times with speed and precision



Crystallization

Predict Particle Size Distribution (PSD)



Mass Transfer Analysis

Evaluate and optimize kLa



Process Scale - Up

Ensures performance across lab to production consistently



Reduced Order Models

Predict flow fields, fast & accurately

..... More

Explore AI-powered process intelligence platform that enables processes from lab to plant scale.

Know more:

contact@acuflowbioprocess.com

Aseptic Diaphragm Valves

BNW Standard Series - Sanitary Diaphragm Valves

The BNW series contains a unique diaphragm design, eliminating the need for constant diaphragm re-tightening after SIP application, and ensuring a rapid changeout at each batch change.



Key Features

Available in line sizes up to 4"	Single polymer bonnet external seal	Pneumatic or manual interchangeability	Standard & bespoke multiport /block options
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Typical Applications

Shut-off functionality, control functionality, back-pressure control, automated and with switching/signalling for all upstream and downstream processes.

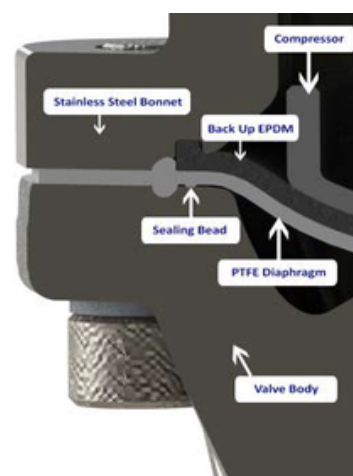
Cell Harvest | Cell Culture | SIP/CIP Utilities | Purified Water Generation | Filtration | Chromatography

Key Specifications

Materials of Construction	Cleanliness	Specifications	Options
316L stainless body	Manufactured in Clean Room environment	100% Leak tested as per ASME BPE / ANSI FCI 70/2 Class VI	Manual or pneumatic
PTFE / EPDM diaphragm high temperature (up to 150C)	Helium leak-tight external sealing	USP Class VI <87><88>, ISO10993-6, -10, -11	TFM1600/Reinforced EPDM Diaphragm
Barstock / forging-only source	CIP-validated as per ASME BPE / BPPR	Electropolished as per ASME BPE, ASTM A967	4/20mA switching / signalling automation
Stainless thin-wall (deepdrawn) actuator	SIP-validated as per ASME BPE / BPPR	Passivated as per ASME BPE, ASTM B912	6 - 200 Cv (flow coefficient)

Advantages of the BNW Series

- **Advanced Diaphragm Design:** Unique PTFE/EPDM sealing technology delivers reliable performance with reduced maintenance and longer diaphragm life.
- **Engineered Performance:** Optimized for hygienic processing with improved drainability, flow efficiency, and process reliability.
- **Proven Validation:** Extensively tested for SIP, CIP, thermal cycling, and leak integrity to ensure dependable operation.
- **Lower Cost of Ownership:** Reduced maintenance, fewer diaphragm replacements, and longer service life minimize operating costs.
- **Engineering Support:** Custom valve design, flow optimization, and application engineering tailored to your process requirements.



Explore More about our Comprehensive Valve Portfolio

Know more:

contact@acuflowbioprocess.com

Aseptic Diaphragm Valves

Custom Solutions

Engineered using advanced 3D modelling and CFD analysis, every solution is fully traceable, ASME BPE compliant, and 100% leak tested, delivering optimized flow paths, minimal dead space, and application-specific performance.



Tandem Valves

The first of Carten's customised valve solutions for our customers. Tandem valves are designed to optimise drainability while also minimising dead legs to meet process design specifications. For this design we usually weld an access valve to a main valve to create GMP or SAP configurations. All our tandem valves are supplied with full material certification.



Multiport and Block Valves

Carten develops custom valve solutions using advanced 3D modelling to optimize flow paths, minimize dead space, and improve CIP/SIP efficiency. Every solution is engineered around the customer's unique process requirements and delivered with complete confidentiality.

We work closely with OEM's on providing the best solutions to the customer.



The Benefits

- The reduction in process pipework footprint
- Installation time minimized due to the compact block design
- Cost effectiveness- the block solution can in many cases replace the necessity for up to 12 conventional valves, therefore reducing the overall cost for the customer.

Quality and Compliance

Carten's Biotech/Pharma Certification Summary

- FDA extraction per 21CFR177.2600 (Elastomers)
- FDA extraction per 21CFR177.1550 (PTFE)
- Latest Edition of the US Pharmacopeia USP In Vitro Class VI <87>
- A modified Class VI protocol for In Vivo Biological Reactivity Testing that meets ISO and USP Class VI with histopathology - USP <88>/ISO 10993-6, -10 and -11.
- Certified as per the Pressure Equipment Directive 2014/68/EU
- EN 10204 3.1 Certified Materials

In-House Strengths

- Shadowgraph Profile Projector
- 3D Shadowgraph Profile Inspection
- Surface Profilometry
- Motic Ratio Stereomicroscope
- Borescope Analysis
- Kanban Pull System in Operation
- Computer Integrated Product Tracking System & ISO9001:2015/PED Module D1 Paperless QMS
- CE Marked (PED Compliant)
- ASME BPE compliant production for FCG soft-seal BNW valves
- Solidworks 3D Drawing Package
- Solidworks Computational Flow Dynamics and Finite Element Analysis
- Dedicated R&D centre for durability testing, flow testing, pressure testing, new product validation.
- Steam-in-place (SIP) thermal cycle test rig.
- Drainability analysis rig

Explore More about our Custom Valve Series

Know more:

contact@acuflowbioprocess.com

Ateco Services AG is a Swiss provider of validated cleaning, derouging, passivation, and disinfection solutions for critical process industries. Through innovative chemistry, patented technologies, and application expertise, Ateco helps pharmaceutical, biotechnology, food, cosmetics, and healthcare manufacturers improve equipment reliability, protect stainless steel systems, and support GMP-compliant operations.



Diruneutra Set

Diruneutra is a pH-neutral derouging agent developed and patented by us. It is an ideal alternative to using conventional aggressive acid solutions for derouging.



Dirupure Set

Dirupure is a pH-neutral derouging agent developed and patented by us. It is an ideal alternative to using conventional aggressive acid solutions for derouging.



Dirupass NB

Dirupass NB is used for passivation after derouging. We designed this pH-neutral product specially for validated cleaning and passivation processes.



Diruclean NS

Diruclean NS is a pH-neutral cleaner specially developed for the effective cleaning of a wide range of materials in the pharmaceutical industry.



Diruclean BX

Diruclean BX is an alkaline-formulated CIP cleaning agent specifically developed for the demanding conditions in GMP-regulated production environments.



Dirupass AP

Dirupass AP, a highly effective acidic CIP cleaning agent by Ateco Tobler AG, is specially designed for use in GMP-regulated production environments. It offers residue-free and validated cleaning, ideal for the production of active pharmaceutical ingredients and medicinal products.

Let us support you on the ideal solutions for your specific Process equipment maintenance needs.

Know more:

contact@acuflowbioprocess.com

We specialize in the passivation of new systems as well as the derouging, deblacking, and repassivation of stainless-steel systems. We offer a complete service and bespoke solutions for the removal of every type of surface contamination.



On-site inspection/ assessment

We inspect customer sites and assess system conditions for



Derouging

Remove rouge, a corrosion on stainless-steel surfaces



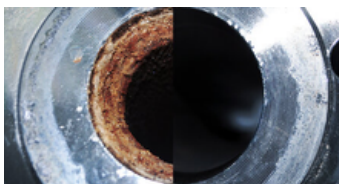
Passivation

Passivation forms a chromium-rich layer for corrosion protection.



Special cleaning processes

pH-neutral cleaning that protects stainless steel and the environment.



Descaling

Material-safe chemical descaling with tailored acid solutions.



Pickling

Precision pickling for clean, smooth stainless steel surfaces.



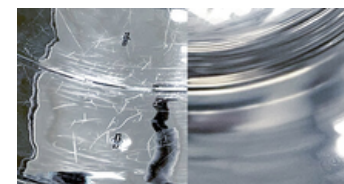
Welding

Repair & reconditioning for pumps, tanks, and system components.



Grinding

Professional hand grinding, on-site or at our technical centre.



Mobile electropolishing

Mobile electropolishing for fast, on-site surface restoration.



Pump reconditioning /service

Expert support for pump repairs, spares, and custom solutions.

Would you like a consultation for your unique maintenance requirements?

Know more:

contact@acuflowbioprocess.com

Sterile Connections. Custom by Design.

No two processes are alike—neither are our hose assemblies. Acuflow provides fully customized, high-purity hose assemblies built to exact specifications, ensuring safe and reliable fluid transfer.



WHY ACUFLOW?



Made-to-Specs

Exact lengths, diameters & fittings for your process



Full Documentation

Certificates of Conformance, surface finish reports



Stringent Quality Control

Traceability, material test reports, leak testing



Certified Cleanroom Integration

Guaranteed sterility and compliance

***Prototype Development** – Available on request

WHAT WE DO?

Hose Assembly with Stainless-Steel End Fittings

A Complete
Package

Comprehensive
Options

Customization

Validation
& Testing

HOSE ASSEMBLY - CONSTRUCTION



Choice from Hose Material

Braided-Reinforced Silicone • Wire-Reinforced Silicone • Flexible PTFE with Silicone Cover • FEP • PVDF • EPDM • PFA



Overall
Length



Outer
Diameter



Inner
Diameter



Fitting
Angle

DOCUMENTATION

- ✓ Certificate of conformance for Hose Assembly with consolidated information
- ✓ Certificate of conformance for Hose material Material
- ✓ Test Report for SS fittings
- ✓ Leak Test Report
- ✓ Surface Finish Report for SS fittings

TYPICAL APPLICATIONS

- Pharmaceutical and Bioprocessing
- Vaccine Manufacturing
- Ultra-Pure Sterile Fluid Transfer
- Aseptic Transfer
- Filling Operations
- Media Processing

Experience Specialized and Custom Options for your Unique Applications

Know more:

contact@acuflowbioprocess.com

Fast, Sterile, Versatile & Designed for Tomorrow.

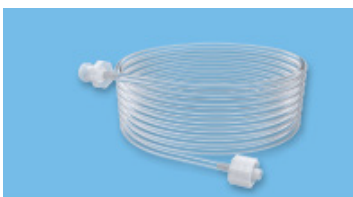
Acuflow, in collaboration with Eldon James, delivers Single-Use (SU) Solutions that redefine process flexibility and sterility. With PVC-free, BPA-free, and biocompatible materials, these assemblies support the highest standards of purity in biopharma, vaccines, cell therapy, and diagnostics.

A Complete Portfolio



LET US HELP YOU BUILD YOUR ASSEMBLIES!

WE ARE YOUR SINGLE SOURCE MANUFACTURER



Integrate Comprehensive tubing, fitting, and assembly solutions in your processes.

Know more:

contact@acuflowbioprocess.com



SeriesLock®

Quick Disconnect Bag Ports

For advanced sterile transfer, SeriesLock® Quick Disconnect Bag Ports extend functionality by enabling larger fluid volumes at lower line pressures. Available in male-valved formats with a variety of female connection options, SeriesLock® provides reliable aseptic disconnection with materials such as polypropylene or Kynar® housings, paired with Engage 8402 plates.

*Patent pending.



POWER OF **10x**

SeriesLockXgen®

Genderless Multi-Connect CDR

A revolutionary genderless sterile quick-connect-disconnect solution engineered for simplicity, safety, and reliability in bioprocessing. Designed to have a compact footprint and recessed contact surfaces, Xgen enables leak-free, sterile connections and reconnections up to 10 times, even in gray spaces.



SeriesLock® Spring-Free Flow Path®

Quick-Connect Coupler

Engineered for higher fluid flow at lower pressures, SeriesLock® ensures reliable sterile connections with an audible click and safety slide release to prevent accidental disconnects. ISO 10993-compliant and sterilizable, with options like non-magnetic springs, multiple materials, and tubing sizes from 1/16" to 1" ID, it delivers secure, long-lasting seals for clinical and bioprocessing needs.

Integrate SeriesLock® Innovation in your
Single-Use Assemblies

Know more:

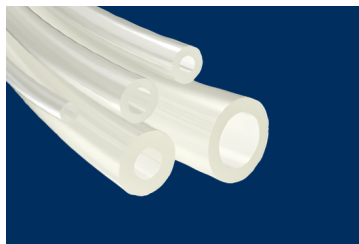
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Flexelene® 135C / Braided 135C

- Peristaltic pump tubing
- Silicone Alternative
- Ultra-low extractables / leachables
- Low gas and oxygen permeability

USP Class VI, ISO 10993-5, ISO 10993-4, USP 661, BPOG Tested



Flexelene® 121C

- Peristaltic pump tubing
- Ultra-low extractables / leachables
- Low gas and oxygen permeability

ISO 10993-5, ISO 10993-4, USP 661, BPOG Tested



Flexelene® MFX Series

- Ultra-low extractables / leachables
- Shore A 58 to 92 hardness

USP Class VI, ISO 10993-5, ISO 10993-4



Flexelene® SFX

- Ultra clear and flexible
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4

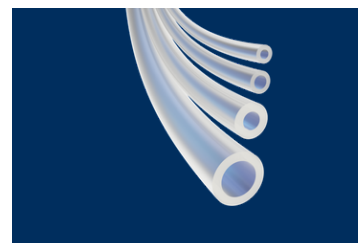
USP Class VI, ISO 10993-5, ISO 10993-4



KFLEX – Kynar®

- Ultra-low extractables/leachables
- More flexible than tubing extruded from 100% Kynar
- Excellent chemical resistance

USP Class VI, ISO 10993-5, ISO 10993-4



Flexelene® FLEX E Series

- Ultra-low extractables/leachables
- Low protein binding
- Shore A 66 to 95 hardness

USP Class VI, ISO 10993-5, ISO 10993-4



EJ Prene®

- Peristaltic pump tubing
- Very good chemical resistance
- Ultra-low extractables / leachables
- Low gas and oxygen permeability

USP Class VI, ISO 10993-5, ISO 10993-4, USP 661, BPOG Tested

18 Proprietary PVC/DEHP-Free Lines

A complete portfolio of eco-friendly tubing designed for medical, beverage, and industrial applications.

Safe, High-Performance Alternative

Eliminates harmful PVC pollutants and phthalates without compromising flexibility, clarity, or strength.

Eco-Responsible Manufacturing

Produced with recyclable materials and green processes to minimize environmental impact.

Flexelene® Innovation

Available in multiple sizes and colors; the tubing offers a superior, silicone-free solution for high-purity needs.

Integrate Comprehensive PVC Free tubing, solutions for your processes.

Know more:

contact@acuflowbioprocess.com

Couplers | MAT: AC • BN • GFBN • NK7 • NN • PP • PVDF • WN • WP • SS

Eldon James' PVC-free hose barb couplings deliver secure, non-leaching connections in sizes 1/32"–1", made from eco-friendly, USP Class VI certified materials for safe, durable use across medical, pharma, and industrial applications.

Straight Couplers



Reduction Couplers



Cross & Y-Fittings | MAT: BN • GFBN • NK7 • NN • PP • PVDF • WN • WP • SS

Eldon James' Cross and Y (wee) barb fittings enable efficient liquid or gas transfer through dual or triple outlets, ideal for beverage and fluid handling applications. Available in equal and reduction sizes (1/16"–1"), these PVC/DEHP-free fittings ensure safe, clean, and non-leaching performance.

Cross Fittings



Equal Y-Fittings



Reduction Y-Fittings



Tee Fittings | MAT: AC • BN • GFBN • NK7 • NN • PC • PP • PVDF • SS • WN • WP

Eldon James' Tee Fittings, designed for Pharma and BioPharma, offer sterile, PVC/DEHP/BPA-free connections with antimicrobial options to prevent contamination. Available in 1/16"–1" sizes, the single-barb, anti-rotation design ensures secure, leak-free, and stress-free connections in sterile bioprocessing environments.

Equal Tees



Reduction Tees



Elbow Fittings | MAT: AC • BN • GFBN • NK7 • NN • PP • PVDF • SS • WN • WP

Designed for Pharma and BioPharma use, ensuring pure, secure, and easy-to-install connections. Available in equal and reduction 90° sizes (1/16"–1"), their single-barb, anti-rotation design prevents leaks and twisting, while the smooth, glass-like finish ensures stress-free, sterile performance in critical bioprocessing applications.

Equal 90 Degree Elbows

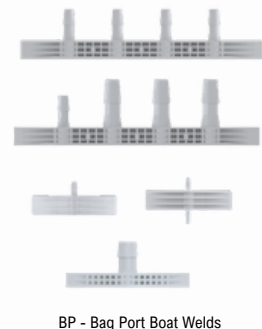


Reduction Elbows



Bag Ports | MAT: E8402 • PP

Eldon James' Bag Ports (Port Plates/Discs) are built for single-use bioprocessing, ensuring sterility, reliability, and weldable flexibility with ultrasonic or thermal compatibility. Available in Flat Plate, Mini Dome, Opposing Barb, Ribbed Base, and Boat designs (1/8"–1"), they support media transfer, storage, and sampling.





Acuflow Bioprocess LLP delivers innovative fluid handling solutions for the pharma, biopharma, and life sciences industries. Our portfolio spans peristaltic pumps, aseptic mixers, custom hose assemblies, and single-use solutions, ensuring purity, reliability, and scalability. Backed by global partnerships and local expertise, we simplify fluidics for safer, faster, and more efficient processes.



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