

## **Biopharmaceutical Industry**

A guide to bioprocessing products and services



ENGINEERING YOUR SUCCESS.

# Maximizing the performance of your bioprocess



### Through integrated single-use solutions

Parker Bioscience Filtration is a global supplier of single-use solutions for biopharmaceutical manufacturing. Our solutions combine our unique and innovative SciLog<sup>®</sup> sensing and control technologies with decades of filtration expertise to produce integrated automated single-use systems that will speed up development times, increase efficiency and safety, and guarantee reproducible product quality.

## Bioscience Filtration within Parker Hannifin

Parker Bioscience Filtration is proud to be one of the leading platforms supplying the biopharmaceutical market within the \$13 billion Parker Hannifin Corporation.

Parker is driven by engineering challenges, always seeking new ways to innovate, combine technologies and collaborate with customers. We listen and respond to your needs to solve your bioprocessing challenges.

#### A commitment to quality

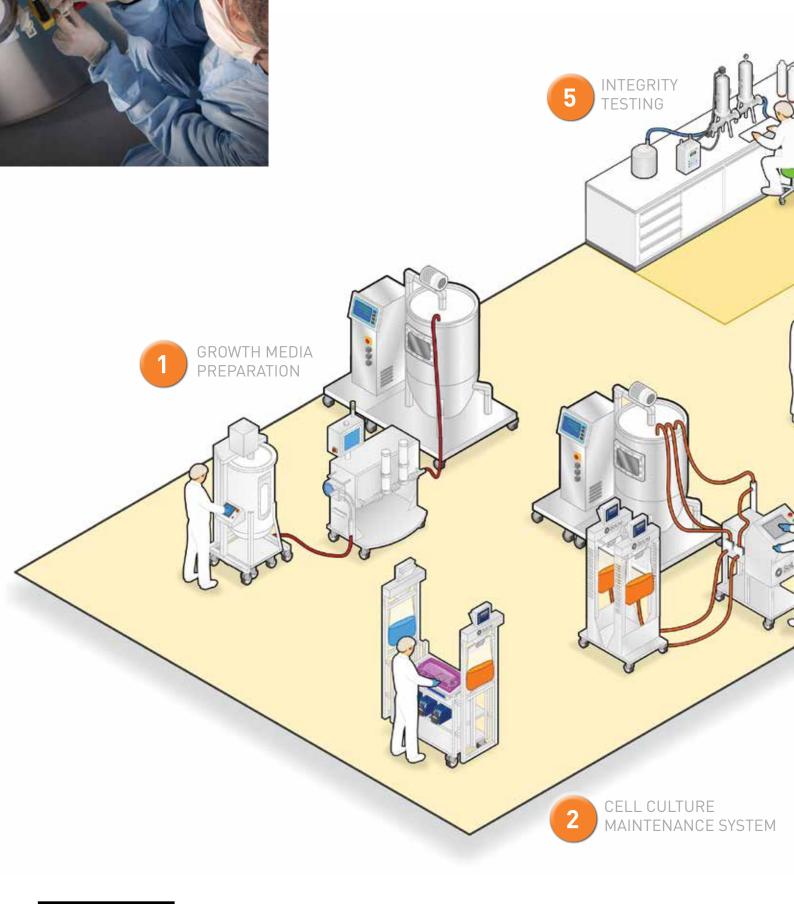
Parker Bioscience Filtration's biopharmaceutical products are designed and manufactured to be used within applications that are most critical to patient safety. All products are manufactured in a controlled environment and fully validated with extractable data for use in biopharmaceutical applications. A strong focus on raw materials, full traceability of components and controlled release of products ensures your process delivers reproducible quality.

#### Global support

Wherever in the world you choose to manufacture, Parker is there to help you get the most out of your bioprocess. With multiple laboratory and manufacturing facilities and a network of customer support centres operating in 48 countries worldwide, we can offer you local, specialized support throughout your entire development process from R&D though to commercial manufacturing.



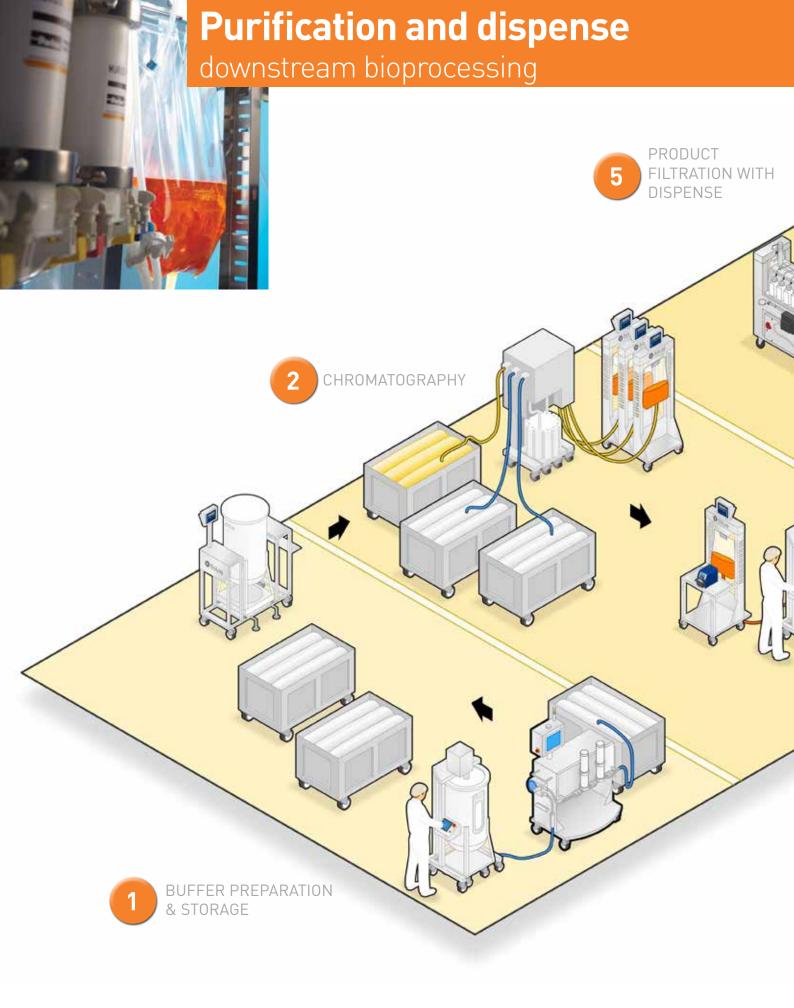




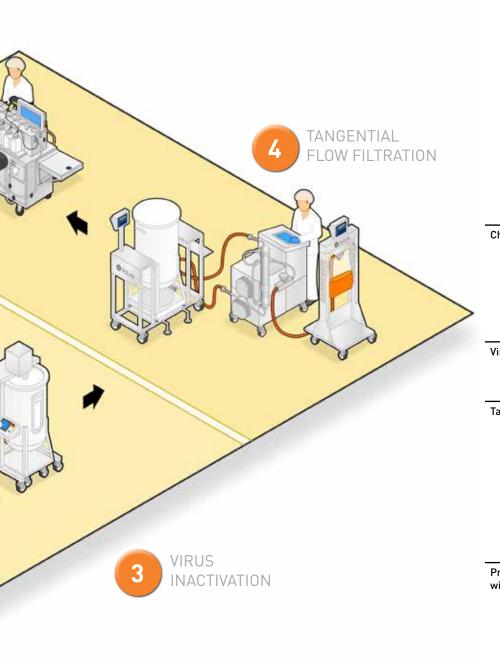




Grow	th Media Preparation	1
		DuraPure®
	Single-use fluid transfer and storage	Select GO
	Automated filtration systems	SciFlex® NFF FilterTec™
	Single-use sensors	SciPres® SciTemp® SciCon®
	Prefiltration	PROCLEAR range
	Mycoplasma retentive filters	PROPOR MR
Cell (	Culture Maintenance System	2
	Bench-scale	MabTec®
	Scale-up applications	Contact Parker Bioscience Filtration
	Quantitative fluid management	WeighStation™ Dual
	Cell retention device	PROPOR TFF
Cell Culture Harvesting		3
	TFF systems	SciFlex® TFF SciPure® TFF
	Prefiltration	PROCLEAR range
	High capacity sterilizing filtration	PROPOR HC
	Single-use fluid transfer and storage	DuraPure® SciLog® SELECT GO
	Automated filtration systems	HarvestClear™
	Single-use sensors	SciPres® SciTemp® SciCon®
Intell	igent Laboratory-Scale Systems	4
	Laboratory-scale tangential flow filtration systems	PureTec®
	Laboratory-scale normal flow filtration systems	FilterTec™
	Multi-filter capacity testing system	FilterTec™Plus
	Media preparation station	LabTec®
	Precision metering	ChemTec™
Integrity Testing		5
	Diffusional flow	Porecheck 4
	Bubble point	Porecheck 4
	Water intrusion	Porecheck 4
	Aerosol challenge	Valairdata 3

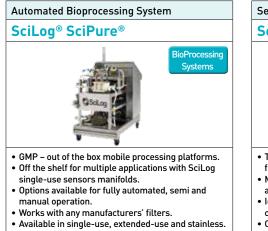






Buffe	r Preparation and Storage	1
	Prefiltration	PROCLEAR range
	Sterilizing grade filtration	PROPOR SG
	Fluid transfer and storage	DuraPure® SciLog® SELECT GO
	Automated filtration systems	SciFlex® NFF FilterTec™
	Single-use sensors	SciPres® SciTemp® SciCon®
	2D and 3D bioprocess containers	DuraPure®
	Configured-to-order single-use assemblies	SciLog® SELECT GO
Chro	matography	2
	Column guard filtration	PROPOR BR
	Fluid transfer and storage	DuraPure® SciLog® SELECT GO
	Quantitative fluid management	WeighStation® Triple
Virus	Inactivation	3
	Precision metering	ChemTec™
	Quantitative fluid management	WeighPro™
Tang	ential Flow Filtration	4
	TFF systems	SciFlex® TFF SciPure® TFF
	Single-use sensors	SciPres® SciTemp® SciCon®
	Fluid transfer and storage	DuraPure® SciLog® SELECT GO
	Quantitative fluid management	WeighCart™
	uct Filtration Dispense	5
	Quantitative fluid management	WeighStation™
	Automated filtration systems	Scilog® SciPur FD System
	Single-use sensors	SciPres® SciTemp® SciCon®
	Prefiltration	PROCLEAR range
	High capacity sterilizing grade filtration	PROPOR HC

## Selection product guide

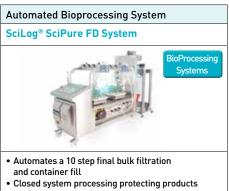


• TFF & NFF models available.

 Optimize filter throughput with patented Rate-Pressure controlled feed.

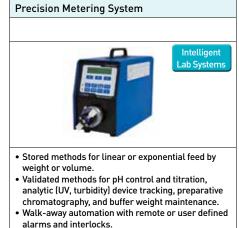


- TFF, NFF, media transfer, media prep and bag filling models available.
- Mobile station for a multitude of bioprocessing applications.
- Ideal for batch operations in development and contract manufacturing environments.
- Off the shelf for multiple applications with SciLog® single-use sensors manifolds.
- Works with any manufacturers' filters.

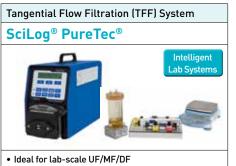


- Closed system processing protecting products against contamination and operators from exposure to potent molecules
- Fully single-use flow path
- Mobile system with small footprint
- **Automated Bioprocessing Components Quantitative Fluid Management Quantitative Fluid Management** Manifolds SciLog<sup>®</sup> WeighStation<sup>™</sup> SciLog<sup>®</sup> WeighPro<sup>™</sup> Single-Use Fluid Fluid lanagemen Managem • Risk management with SU technology. Accommodates up to three 50Kg single-use • A mobile, compact, vertical bag holder. • Reduce cross-contamination. hanging bags. • Integrated configurable bioprocessing workstation. • Fully assembled, ready-to-use. • Eliminates balancing of bags on mobile carts. • Adjustable filter, tubing, sensor and pump mounts. • Allows self drainage and 100% sample recovery. Tool trav table. Increases operator safety when working with toxins. • No second operator required to hold the bag. • Quick configuration allows maximum process • Your choice of sensors, bags and filters. flexibility. • Designed to meet your requirements.





• Programmable control of two 6-port rotary valves.



- Ideal for lab-scale UF/MF/DF
   concentration and diafiltration.
- Controls and monitors TMP
- (transmembrane pressure) and feed rate.
- Set end points and alarm for walk-away operation.



- Sample weighing and auto-diluting
- Sample weighing and auto – weight ratio capability.
- Performance validation sent with each LabTec<sup>®</sup>.



- Sensor Products SciPres®, SciCon®, SciTemp® Sensor Products Products • Pre-calibrated sensors for single or extended-use. • Each sensor is pre-calibrated with a unique identifier and is lot traceable.
- accuracy and is stored on each sensor's memory chip for out of the box, plug and play use.
- Custom calibrations available.
- Available in 5 connection variants.



- Fully validated and integrity testable for assurance of sterility.
- A typical LRV of >10 for *Acholeplasma laidlawii* for effective mycoplasma control.
- Integral prefilter layer increases throughputs for reduction of filter trains.
- Exceptional flow rates for quick processing of cell culture media.

**Bioburden Reduction Filters** 

**PROPOR BR** 



- Fully validated and integrity testable membrane for assurance of sterility.
- Low binding for minimal product loss.



for greater processing economy.

- Polyethersulphone
   0.2 micron

   Brevundimonas diminuta retention of LRV >5 efficient bioburden reduction.
   Additional prefilter layer gives excellent throughput to blockage.
  - Low binding for minimal product loss.



## Selection product guide



• Ideal for difficult to filter solutions.

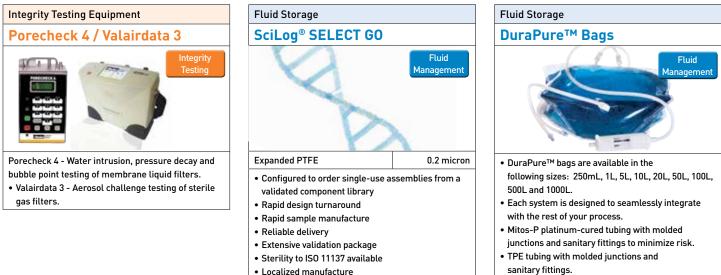


- Dual layer media for increased capacity and assurance.
- Maximizes retention for protection of downstream membranes.
- Ideal for difficult to filter solutions.



• High voids volume PTFE membrane.

• Contact us to discuss your custom needs.



- Localized manufacture
- Overmolded or barbed options available

## **Contact** for further information

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