

Single-use Manifold Design Services

Singularly Built for Your Process

Manifolds provide a seamless transition from filling bags one at a time to filling multiple bags at once, enabling the biopharma industry to:

Increase

- Process flexibility
- Product quality
- Scalability
- Speed to market

Decrease

- Time
- Space
- Resources
- Costs

Transition to Efficiency

Manifolds can be used in both manual and automated filling processes, making the transition from process development to manufacturing scale-up stages an easy process.

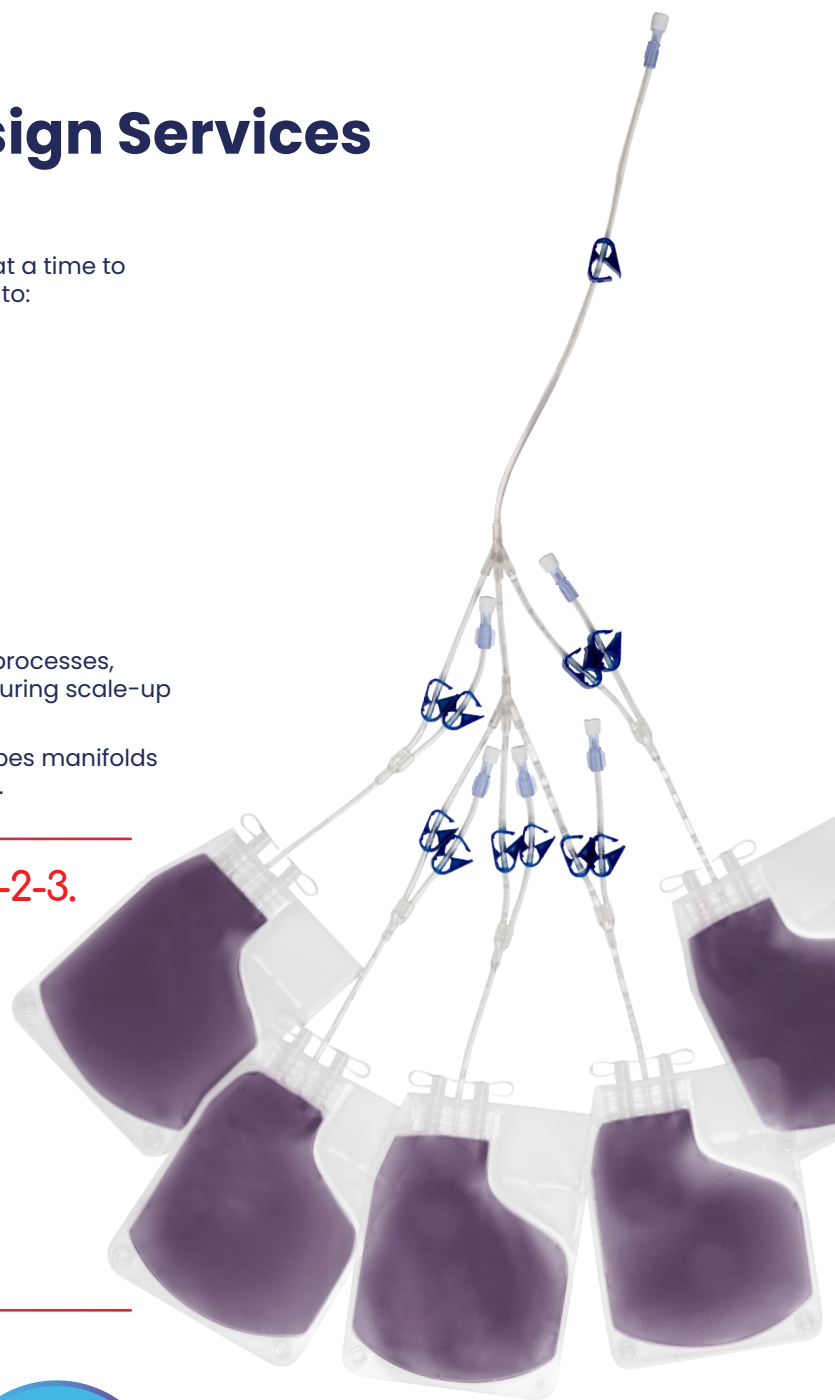
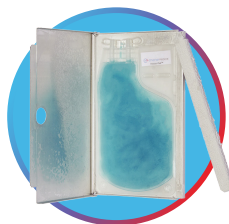
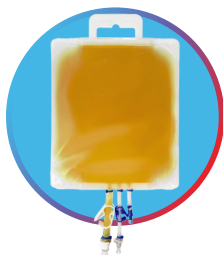
Charter Medical's Design Service custom designs and prototypes manifolds in as little as 6 weeks so you can reduce daily processing time.

Building your manifold is as easy as 1-2-3.

- 1 Define Process and Parameters**
 - Cryopreservation
 - Reagents, buffers, and process liquids
 - Manual or automated
- 2 Design Fluid Path**
 - Bags, tubing, and connections
 - Equipment integration (e.g., sensors)
- 3 Build and Ship**
 - Double-bagged and labeled

Applications

- Filling
- Expansion
- Cryopreservation
- Viral vector
- Buffers and process liquids



Contact us today at www.chartermedical.com/contact-us

Custom Design Service

Custom manifold solutions from concept to prototype can be available in as little as 6 weeks by utilizing components within our standard component library.

Film Technology and Nominal Capacity

Freeze-Pak™ Polyolefin	Clear-Pak™ PE/EVOH/ULDPE	Transfer PVC
50 mL	50 mL	150 mL
250 mL	500 mL	400 mL
500 mL	1 L	600 mL
750 mL	2 L	1 L
1 L	5-20 L	2 L

Compatible Connectors

HB Reducer	Elbow
Coupler	Y Connector
Plug	3-way Connector
Tee	4-way Connector

Compatible Tubing

Freeze-Pak™	TPE	Silicone	PVC
0.125" ID x 0.25" OD	0.125" ID x 0.25" OD	0.125" ID x 0.25" OD	0.116" ID x 0.16" OD

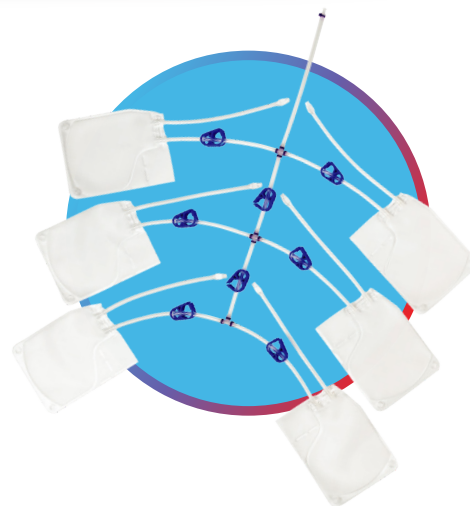
Additional integrations can be designed into a single-use manifold such as:

- Unique single-use bag geometry
- Sensors
- Filters
- Pump elements
- Port configuration

Educational Resources

For more information on how to effectively implement manifolds to optimize processes for scaling up advanced therapies—while ensuring safety and operational speed—explore the articles below:

- [Manifolding for Scale-Up, Safety, And Speed](#)
- [How to Build a Process for Scale and Efficiency: Tips for Designing a Single-use Manifold for Advanced Therapies](#)



Start Your Design Today.

Experience a better, more efficient way to fill final product with any manifold configuration. Contact us today at info@chartermedical.com or visit www.chartermedical.com/contact-us