

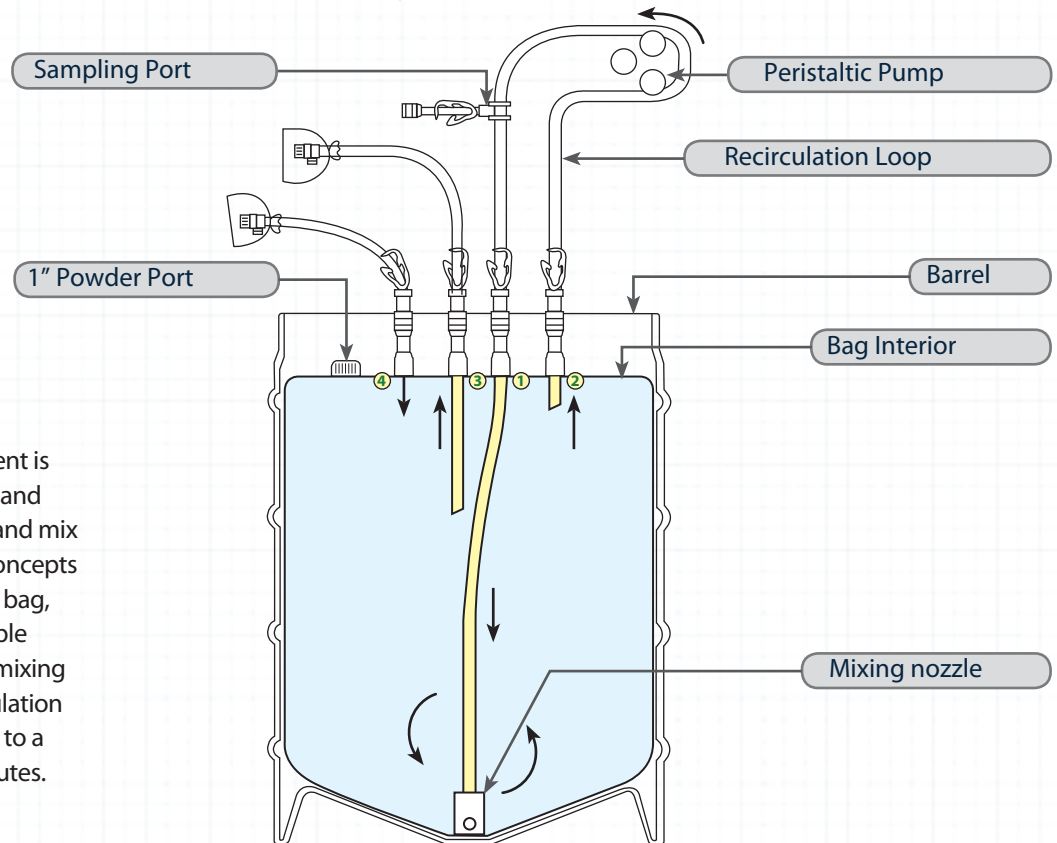


The Flex Mixing System

A Complete Recirculation & Mixing Process System

In keeping with its goals to provide customers with affordable bio-handling processes, Flex Concepts, Inc. has developed The Flex Mixing System. This single-use bag system creates a completely sterile mixing and recirculation process from start to finish. There is no longer a need for expensive stainless steel mixers, blades, and containers.

Complicated and burdensome equipment is a thing of the past! The Flex mixing bag and system is designed to store, recirculate and mix all types of media within a sterile Flex Concepts single-use bag. With the properly fitted bag, in a Flex Concepts conical shaped, durable and reusable polyethylene barrel, your mixing requirements are met. The rapid recirculation design will mix almost any components to a homogeneous mixture within 5-15 minutes.



(Standard Recirculation System)

Method of Operation

Flex Concepts' mixing and recirculation system uses a disposable mixing nozzle to direct the recirculating fluids and powders throughout the Flex single-use bag which has been fitted inside a Flex rigid polyethylene barrel. Using the mixing nozzle design, multiple tubing sizes and a conical shaped bottom barrel, the Flex system creates either a gentle or robust vortex which sweeps and lifts the contents from the container bottom.

Note: There are no moving parts in the system. Fluid and other media recirculation is accomplished via an external pump.

Flex Mixing System Applications

- Liquid to Liquid
- Powder to Liquid
- Recirculation of Homogeneous Solutions

Flex Recommended Peristaltic Pumps

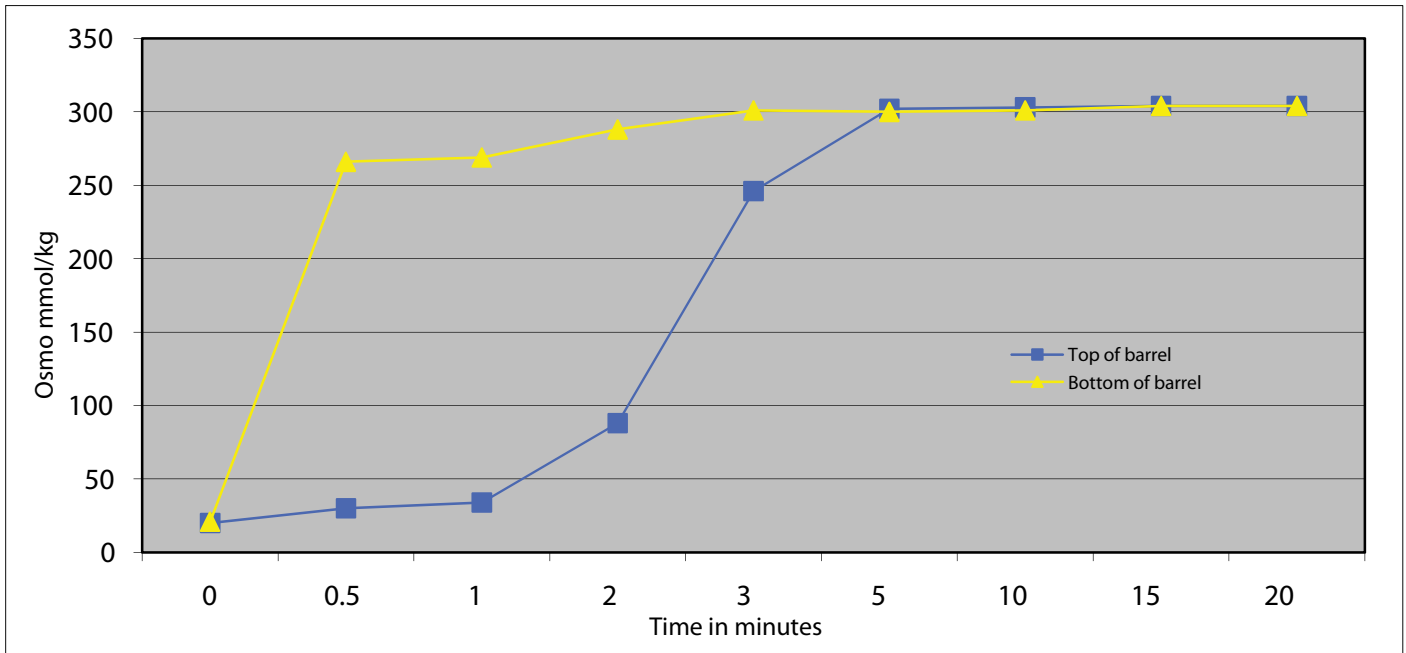
- Cole-Parmer B/T
- Watson-Marlow Series 700



Flex Concepts' mixing bags and associated components are sterilized using Gamma Irradiation between 25-40 kGy unless requested otherwise. Leachable & extractable data available for all contact materials. Full traceability for all materials. Certificates of Analysis provided for each lot. Flex Concepts is cGMP compliant.



mixing study - Powder to Liquid



Results: The test data demonstrates rapid mixing of the test media achieving 99% homogeneity within 5 minutes and 100% or complete mixture within 15 minutes.

Flex Material & Construction Highlights (3 ply bag)

- Inner ply-contact material (LDPE)
- Intermediate ply-safety layer (LDPE)
- Outer ply-tensile strength & gas barrier (EVOH/Nylon)
- All contact material is USP Class VI approved
- All contact material available in ADCF (upon request)
- Validation certificates available for all contact materials
- Customized sizes and configurations available upon request
- Optional films available

Flex Products

Single-Use Bags	Flex Part #	Barrels	Flex Part #
50 Liter	FSE00419.01	50 Liter	FSF00019.01
100 Liter	FSE00419.02	100 Liter	FSF00019.02
200 Liter	FSE00419.03	200 Liter	FSF00019.03
Tank Liner (one size fits all, 50L - 200L)		FV0120019.03	
Drum Dolly (one size fits all, 50L - 200L)		FSF00010.03	

