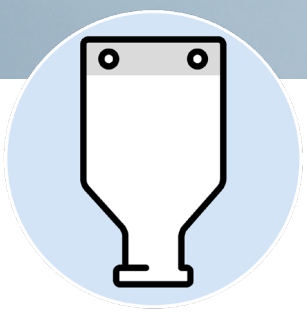
Home of Containment Solutions





TransferBag Systems

Flexible Single-Use Solutions for Safe Powder Transfer up to OEB 5

LUGAIA
Containment Solutions

High Containment TransferBag Systems

Product Portfolio Overview

Flexible Transfer Solutions for High Containment Applications

Safe and efficient transfer processes are essential when handling **highly potent products**. Lugaia offers **flexible single use TransferBag solutions** for **safe powder handling**, **reliable containment** and easy integration into pharmaceutical and chemical manufacturing processes.

From standard TransferBags to SafePort systems, our solutions combine **high levels of safety**, **easy handling**, **reduced cleaning requirements**, **faster product changeovers** and **maximum flexibility** for modern **GMP environments**.

Standard TransferBag

- **Application:** Powder transfer of small quantities in pharmaceutical and biotech processes
- **Product Volume:** Small quantities / customized
- **OEB Level:** Low and Medium Containment
- **Key Benefit:** Customized design with various connection and configuration options





SafePort Evo

- **Application:** Powder transfer with continuous docking for highly potent products
- **Product Volume:** Small quantities up to 40 l
- **OEB Level:** OEB 5
- **Key Benefit:** Seamless product flow without product loss and high process safety

SafePort

- **Application:** Closed powder transfer with DN 150 interface for larger process connections
- **Product Volume:** Small quantities up to 40 l / larger containers up to 180 l
- **OEB Level:** OEB 5
- **Key Benefit:** Larger process area for efficient transfer of larger product quantities



SafeStick – Ingeniously Simple Sealing

The SafeStick enables cost effective, fast and secure closure of TransferBags of all types and sizes without the need for additional tools.



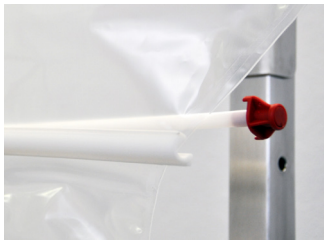
The Advantages of the SafeStick

- Completely made of PE
- Guaranteed tightness due to the special omega profile
- Available in different lengths
- Reusable for all TransferBags
- Easy handling
- High occupational safety



SafeStick closed with safety locks

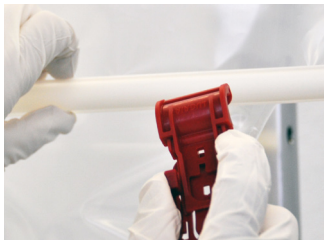
Assembly of SafeStick and Safety Locks



Install SafeStick to TransferBag



Press the round rod into the omega profile.



Attach the safety lock to the SafeStick.



Close the safety lock.

Disassembly of SafeStick and Safety Locks



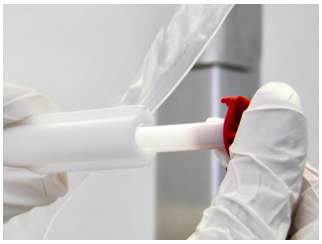
Starting position for disassembly.



Release the lock and open the safety lock.



Open the safety lock by gently twisting it.



Press the round rod out of the omega profile.

Standard TransferBag System

Product Transfer of Small Quantities



Tri-Clamp Closure / Connection Options

- Tri-Clamp 4“
- Tri-Clamp 6“
- DN100
- DN150
- Corresponding Blind Caps (Dust Protection Caps)



Advantages of the TransferBag

- Powder transfer of small quantities
- Flexible connection options
- Customized films and designs
- GMP compliant manufacturing in ISO 5, 7 and 8 cleanrooms
- No cleaning validation required
- Shorter changeover times
- High process flexibility

Customer Benefits

- Easy integration
- Fast commissioning
- Minimal product loss
- Ergonomic handling
- Maximum product yield

Typical Applications

- Media & Buffer
- Powder Charging
- Dispensing
- API Transfer
- HPAPI Handling

Various Configuration Options



With integrated flushing hose and coupling



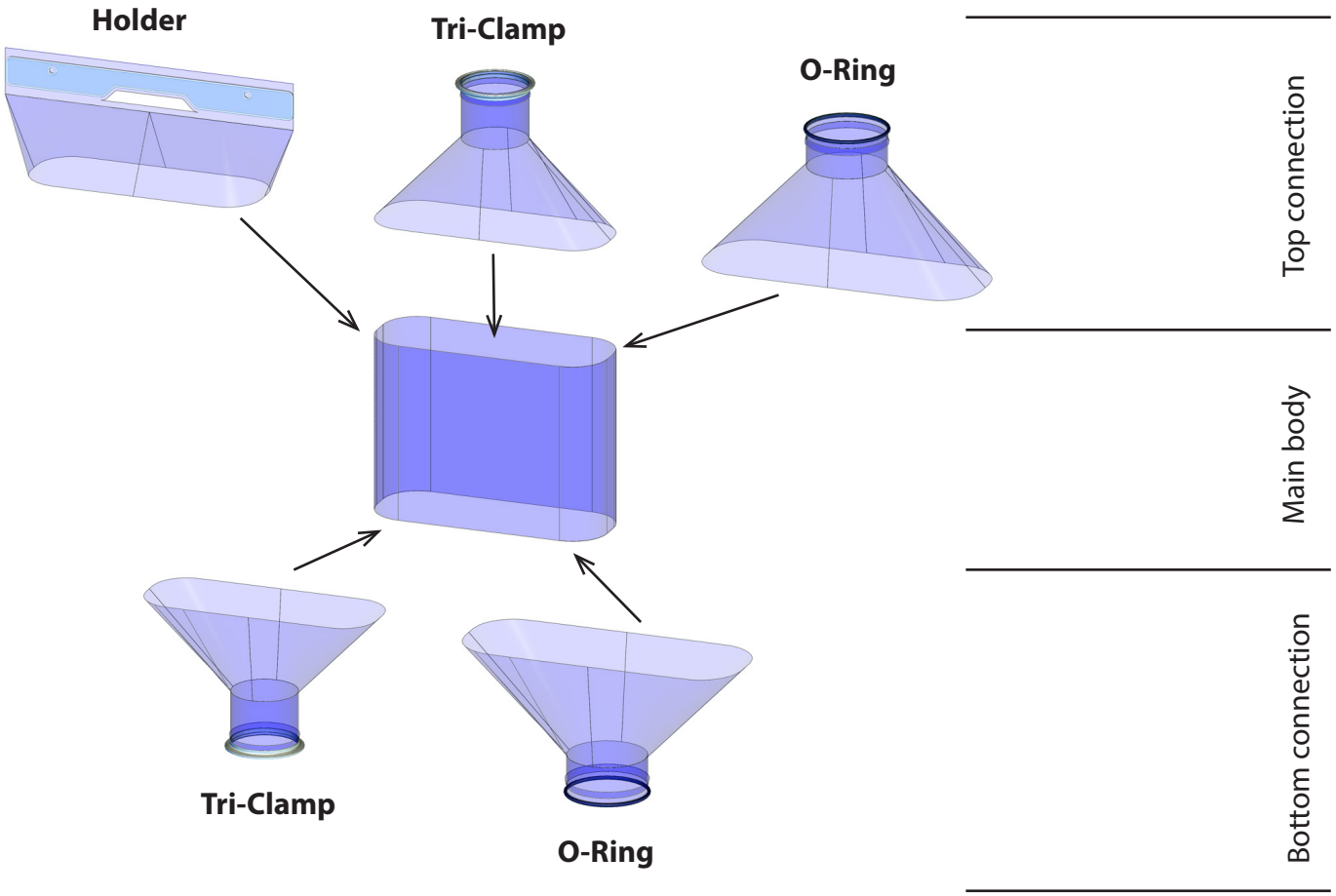
With integrated O-ring



With product funnel and special connections for glass nozzles

Standard TransferBag System

Configuration Options



Connection options can be individually configured according to specific requirements.

Volume / Capacity	Bag Width	Bag Length	Tri-Clamp Connection
5	400	400	4“/ 6“/ DN100 / DN150
10	400	700	4“/ 6“/ DN100 / DN150
15	400	1100	4“/ 6“/ DN100 / DN150
20	500	1100	4“/ 6“/ DN100 / DN150
25	500	1400	4“/ 6“/ DN100 / DN150
30	700	1200	4“/ 6“/ DN100 / DN150
40	700	1600	4“/ 6“/ DN100 / DN150

Special sizes and connections are available on request. Dimensions are approximate and can be customized to meet specific customer requirements.

Which OEB 5 Transfer System is right for your process?

Criterion	SafePort Evo	SafePort
Containment	OEB 5	OEB 5
Volume	5-40 liters	5-40 liters and 180 liters
Application	smaller product volumes	larger product volumes
Docking Cycles	unlimited	limited number (max. 20)
Design	constant system height	tower design
Opening	4“ (6“ process area)	DN 150
Free Diameter	no valve	no valve
Cleaning	integrated	optional
Films	special films available on request	special films available on request
Maintenance	seal replacement	maintenance free
Special Features	Double Containment (OEB 6) Intuitive handling Position indicator	seal integrated into the connection ring





Typical Applications

Product Transfer
- Powder Charging
- Reactor Charging
- Drum Filling
- Dispensing

Pharma
- HPAPI Handling
- API Manufacturing
- Tablet Production

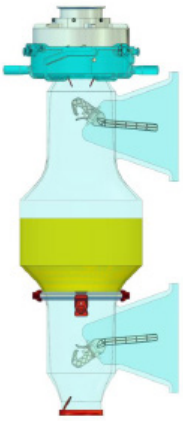
Other
- Sampling
- Buffer & Media Transfer
- Isolators

Available film materials:
- LDPE
- Antistatic LDPE
- Conductive films
- Customized multilayer films

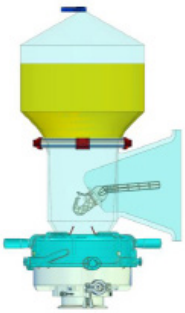
Available Standards:
- FDA-konform
- USP
- EP

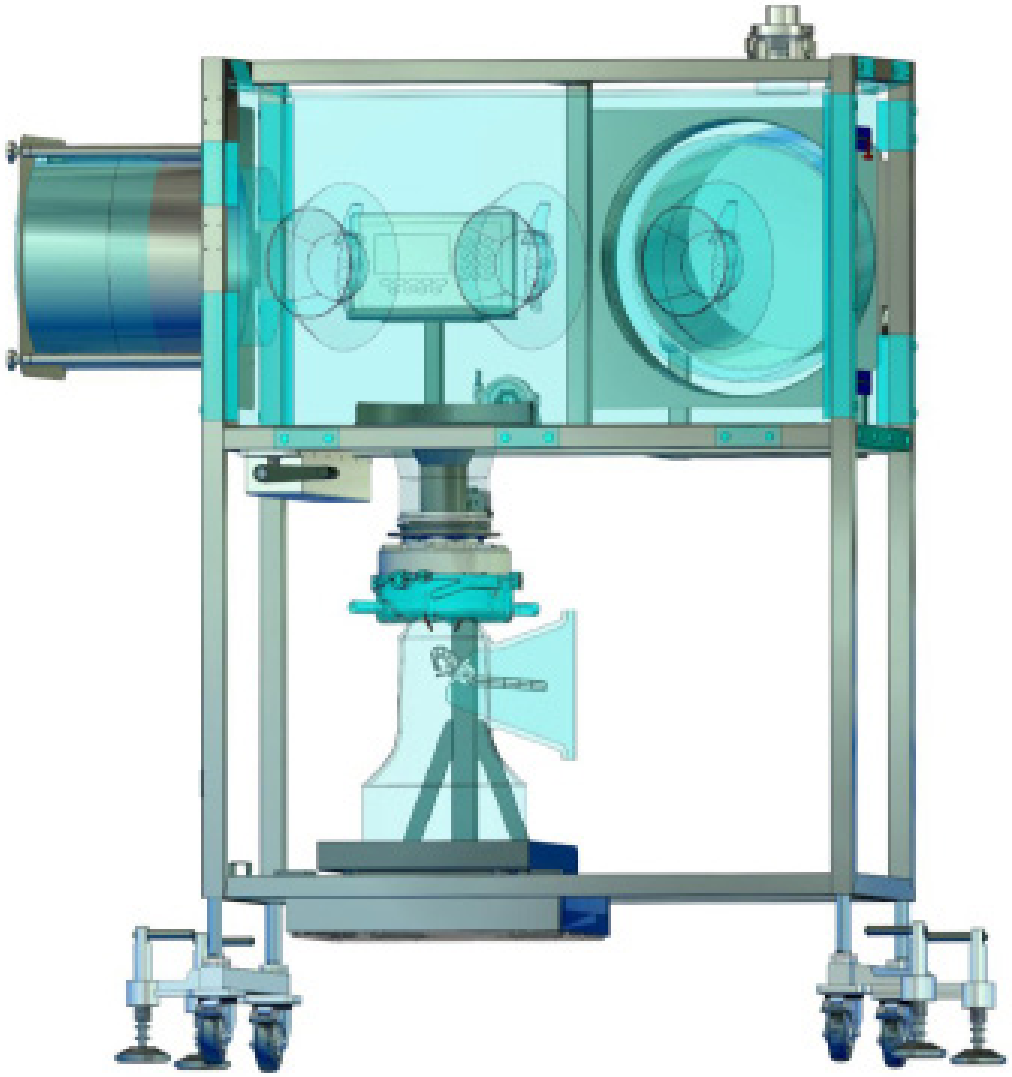
SafePort Evo in the filling process
SafePort TransferBag systems can be flexibly integrated into a wide range of containment processes, from powder transfer and sampling to isolator applications.

Filling



Emptying

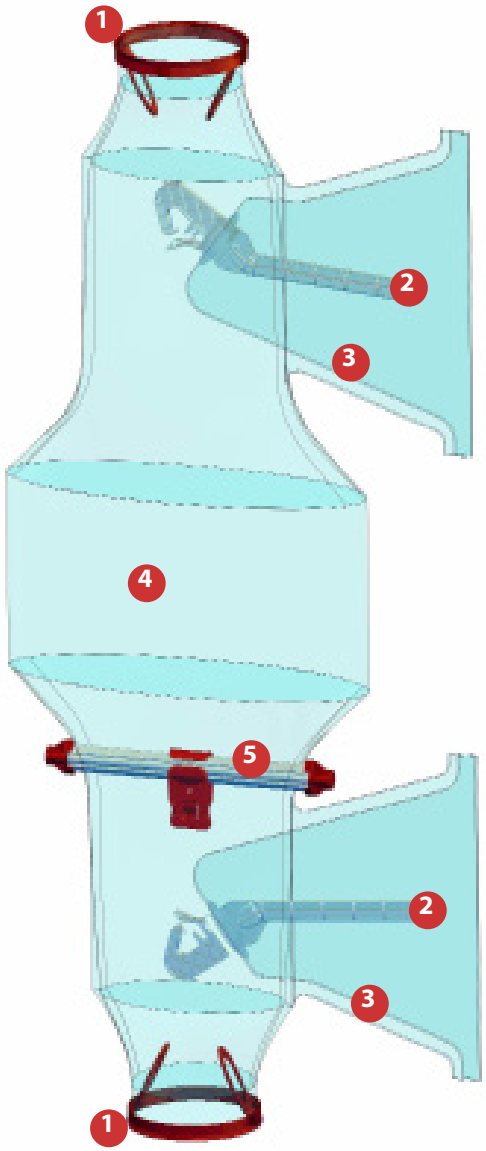




Example Process: Material Transfer – Dispensing

SafePort Evo Design

The Lugaia SafePort EVO combines **low investment costs** with high containment and **easy handling**. Fewer operating steps and the **integrated position indicator** enable **intuitive, safe and efficient product transfer.**



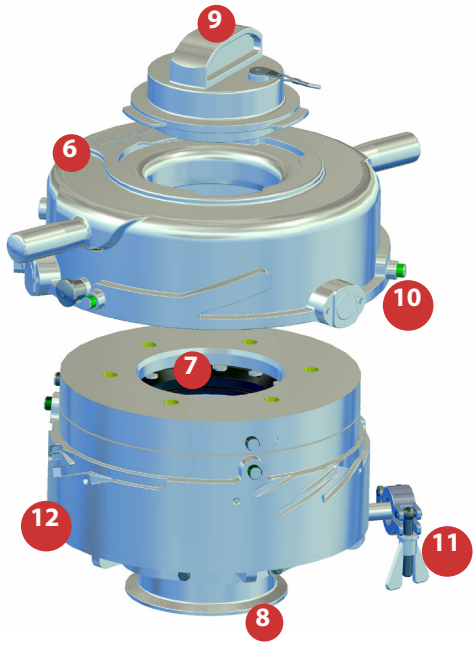
Components

1. Connection ring
2. Extractor
3. Lateral sleeve
4. Main body
5. SafeStick with safety lock
6. Mounting aid
7. EPDM / FKM seal
8. 4“ Tri-Clamp interface
9. Dust protection cap
10. Position Indicator
11. WIP connection for spray ring
12. SafePort Evo connection head

Standard Sizes

Volume / Capacity (l)	Bag Width (mm)	Bag Length (mm)
5	300	860
10	400	1000
20	700	1270
25	700	1310
40	700	1410

Note: Maximum product weight: 20 kg.



Customer Benefits

- Unlimited docking cycles
- Reduced product loss
- No split valve required
- Lower investment costs
- Faster product changeovers

High Containment TransferBag Systeme

SafePort Evo Operating Principle



Scope of Delivery

1. SafePort Evo connection head
2. Mounting aid
3. Dust protection cap
4. SafePort Evo TransferBag
5. Welco clamp
6. SafeSeal DuoPro with size S crimp

Process - Starting Position



Connection head with remaining bag section.



Place the SafePort TransferBag in the assembly aid.



Dock the mounting aid using the position indicator.

Process - How it works (4 Steps)



1. Connect the TransferBag by turning it until the position indicator turns green.



2. Pull out the remaining bag section.



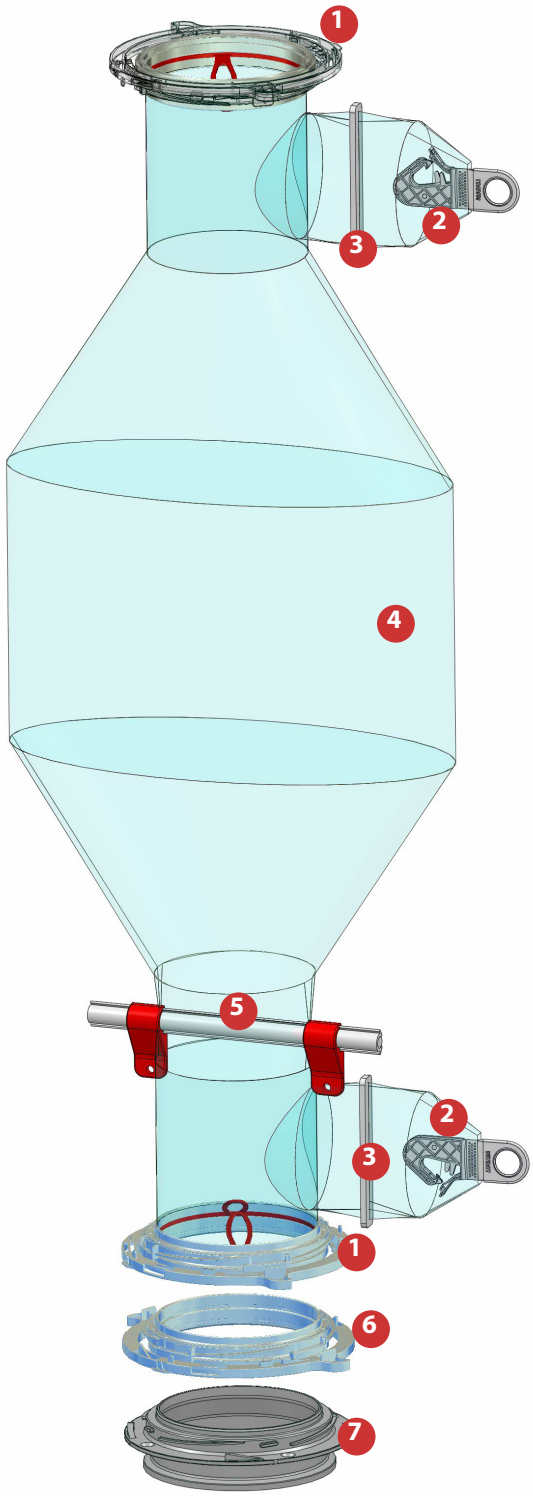
3. Open the SafeStick. Ready for product transfer.



4. Crimp and cut using the Lugaia SafeSeal System.

SafePort Design

The Lugaia SafePort was developed for the safe transfer of larger product quantities in high containment applications. Thanks to the standardized DN 150 interface, the system can be easily integrated into existing equipment and enables reliable product transfer up to containment level OEB 5 (<1 µg/m³).



Components

1. SafePort connection ring
2. Extractor
3. Welco clamp
4. Main body
5. SafeStick with safety locks
6. SafePort initial flange
7. SafePort connection head

Standard Sizes

Volume / Capacity (l)	Bag Width (mm)	Bag Length (mm)
5	300	1100
25	500	1300
40	600	1500
180	850	1700

Special sizes available on request.

Scan the QR code and watch the video.

Customer Benefits

- Ideal for large batch sizes
- Robust connection
- Compatible with DN150
- Optional cleaning system

SafePort Operating Principle



Scope of Delivery

1. SafePort TransferBag
2. SafeStick
3. Mounting aid
4. SafePort connection head
5. Dust protection cap
6. SafePort connection head with integrated CIP connection (optional)
7. Initial flange



SafePort TransferBag, Powder Transfer up to OEB 5



DrumBag up to 180 Liters



SafePort connection head with integrated cleaning system for reduced cleaning effort



Protective cap for SafePort System for secure closure



Planning a new containment project?
Contact our experts.

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Why Lugaia?

- Swiss engineering
- Customized solutions
- ISO 5 / 7 / 8 production
- Used worldwide
- Over 20 years of containment experience

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