

# Continuous Liner System CLS/CLCC

Containment-Level  $\leq$  OEB 5 ( $<1\mu g/m^3$ )



### **Continuous Liner System**

Continuous Liner / Liner Carrier

The Lugaia Continuous Liner Systems prove themselves strongly when it comes to the safety of the staff and protection of your product. Axial folding enables film lengths of up to 80 meters. Fold height and foil length are depending on the film thickness.

On request, Lugaia also produces special CLS liner sizes from customerspecific foils.



#### The advantages of the **Continuous Liner:**

- High product and personal protection in the OEB 5 (<1µg/m³) Containment-Level
- Easy handling
- Customer customizable foil material
- Up to 80 meters per unit
- Less personal protection required
- Reduced or no cleaning of the environment
- Maximum film capacity in the smallest of spaces
- Different diameters and folding heights available
- Foil thickness of 50-150 μm
- High quality / manufactured in the ISO clean room

# **Continuous Liner as Primary or Secondary Packaging**

#### Folding technique:

from tubular foil, the Continuous Lin- of a pure or antistatic LPDE. er allows packaging in different manufactured sizes. With this folding pro- **Clean room assembly:** cess, it is possible to fold a maximum foil length (up to 80 m) into the smallof the Continuous Liner packaging which saves time and costs.

#### **Custom film material:**

Lugaia offers the opportunity for Continuous Liners to be manufactured from a customized packaging foil material. The Continuous Liner can be used for readily validated applications.

By default, depending on the applica-Thanks to a special axial fold made tion, the Continuous Liners are made

The best tailored and quality guaranteed processes for our customers are est space available. This decreases available in 3 Continuous Liner clean the frequency for needed changes room classes: ISO 5, ISO 7 and ISO 8.

#### **High containment solution:**

For sealing and separating, the Continuous Liner will be using the Lugaia patented SafeSeal Closure System. Whereby an OEB 5 (<1µg/m³) Containment-Level can be guaranteed.

#### The possible uses:

- Pack-off Stations
- Packaging of API's (Active Pharmaceutical Ingredients) and toxic and highly reactive products
- Isolator and clean room application (Foil lock)
- Primary packaging
- Waste locks
- Material locks
- Sampling

### **Continuous Liner System**

Scope of Delivery / Possible Applications

The Liner Carrier System is used wherever endless liner is attached to a plant or an isolator system which needs to be installed as a foil lock. The foil package is placed on the carrier tube that is sealed with an O-ring and also pressed off and secured with an O-ring clamping ring.

The connection of the Liner Carrier is individually adapted to the interface of the system, for example through TriClamp or flange connection.



#### **Scope of Delivery:**

- 1 Liner Carrier
- 2 Linerunit
- **3** O-ring and clamping ring
- 4 SafeSeal Premium Toolset
- 5 SafeSeal crimp
- **6** SafeSeal opener

### **Application examples**



A CLS horizontal port

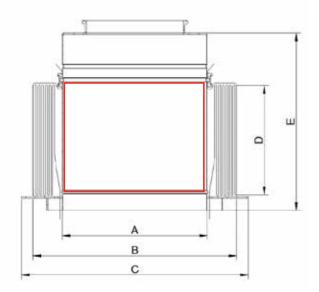
**B** CLS vertical product port

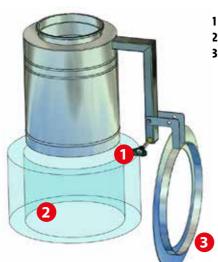


CLS wall installation

## **Continuous Liner System**

**CLS Standard Sizes** 





- 1 Ball-lock pin
- 2 CLS-Liner
- **3** Foldable retaining ring



**Corresponding Liner Carrier Types** 

550

630

670

750

Scan the QR code and watch directly the video

#### **CLS Continuous Liner Types**

800

910

970

1100

**CLS-800** 

**CLS-910** 

**CLS-970** 

**CLS-1100** 

Type	Foil width (mm)	B= Foil diameter (mm)	<b>D= possible Liner heights</b> (mm)	Foil lengths (m)	A=Tube diameter (mm)	C= Holder diameter (mm)	E=Liner Carrier construction height (mm)
CLS-300	300	190	150 / 300	5-20	115	240	
<b>CLS-400</b>	400	250	150 / 300	5-20	170	300	
CLS-500	500	320	170 / 250 / 400	20-40	220	370	
<b>CLS-600</b>	600	380	170 / 250 / 400	20-50	300	430	Liner height +
CLS-700	700	450	170 / 250 / 400	20-50	340	500	approx.
CI S-800	800	500	170 / 250 / 400	20-50	370	550	150 mm

20-50

20-80

20-80

20-80

370

420

450

530

170 / 250 / 400

170 / 250 / 400

170 / 250 / 400

170 / 250 / 400

#### **Equipping the CLS Continuous Liner Carrier**

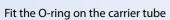
500

580

620

700







Put the foil on the package



Seal with clamping ring and close with SafeSeal Closure System

## **Continuous Liner System**

Continuous Liner

### **Continuous Liner Carrier System from Lugaia – effective and popular**

#### Clean room production ISO 5, ISO 7 and ISO 8

Quality is the top priority in the manufacturing process of our products. Our quality management system provides credentials for this with certifications according to ISO9001: 2015 and ISO15378: 2017 (primary packaging for pharmaceutical applications). In our class ISO 5, ISO 7 and ISO 8 clean rooms, we use cutting-edge technology for processing and welding of foils according to validated processes on qualified systems.



#### **The Continuous Liner**



#### Foil variants:

- PE with antistatic characteristics
- Pure PE for primary packaging
- PE with antistatic or conductive grid printing
- Barrier foils
- Custom foils

#### FDA, EP and USP approved

### **Continuous Liner System**

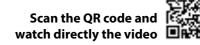
**CLCC Continuous Film Carrier** 

#### **CLCC Continuous Liner Carrier (with RTP Beta)**

#### Rapid transfer port systems for high containment



**CLCC Continuous Liner Carrier** 



Our Continuous Liner Carrier combined with the RTP Beta-System makes it possible for inward and outward transfers at RTP Alpha interfaces. The Continuous Liner Types CLS-300-910 can be combined with the RTP Beta-Ports 190-460.

# The advantages of the CLCC Carrier:

- Light design through use of plastic
- Continuous Liners are easily assembled
- Custom design
- Tested RTP connection system

#### **Equipping the CLCC Continuous Liner Carrier**



Remove the retention basket



Seal the Continuous Liner on the carrier tube



Fit the O-ring



Mount the retaining basket



Put on the Continuous Liner



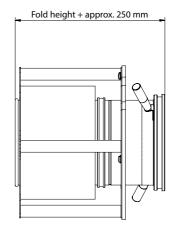
Close the Continuous Liner with SafeSeal

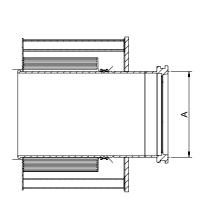
## **Continuous Liner System**

**CLCC Sizes and Scope of Delivery** 

#### The Standard Sizes

- When combined, the RTP Beta-Ports are arbitrary with our Continuous Liner Types CLS-300-910.
- Depending on the type of Continuous Liner, fold heights between 150-400 mm can be chosen.
- Design and dimension can be manufactured according to customer specifications.





Type RTP Beta-Port (Measure A)	CLS Continuous Liner Types	CLS Continuous Liner Fold Heights	
DPTE-190		150-400 mm	
DPTE-270	CLC 200 010		
DPTE-350	CLS-300-910		
DPTE-460			

Continuous Liner Carriers form the interface between the outlet and the Continuous Liner Package and guarantee appropriate handling and protection. There are specific requirements for each application that we have taken into account when designing our standard Liner Carriers. This way we can achieve the highest possible occupational safety and ensure user-friendliness.



#### Scope of Delivery:

- 1 Liner Carrier
- 2 Liners
- **3** O-ring and clamping ring
- 4 SafeSeal Premium Toolset
- **5** SafeSeal crimp
- 6 SafeSeal openers

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#### Lugaia AG Containment Solutions

Industriezone Basper 31 3942 Raron, Switzerland Telephone +41 (0) 27 948 45 55 anfrage@lugaia.ch

#### Lugaia Deutschland GmbH Containment Solutions

Westendstraße 2 85084 Reichertshofen, Germany Telephone +49 (0) 8453 33 550-0 info@lugaia.de

# Lugaia USA, LLC Containment Solutions

Ponte Vedra Beach, Florida Telephone +1 904 401 0003 info@lugaia.com

### www.lugaia.com

### **Our product overview:**

- Continuous Liner System CLS / CLCC
- SafeSeal Closure System
- TransferBag System
- SafeFlex Isolator System

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