

SafeSeal Closure System

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



SafeSeal

Closure System

SafeSeal from Lugaia – simply ingenious or ingeniously simple?

The manual SafeSeal Closure System for Continuous Liner Systems (patented)

pulled over the bag and compressed with special locking pliers. The crimp can then be separated using a cutting

The SafeSeal Closure is manually (<1µg / m³) in action with Lugaia closure system consists of SafeSeal Continuous Liners and thus forms Closure clips, a crimp and a cutting the spearhead of the manual lock tool and it can be completed with a systems. Through the deployment of protective cap and hanger. tool. Crucial for the closure size is the the SafeSeal Opener, the closure can foil size. The SafeSeal Closure guar- be removed again without any addiantees Containment-Level OEB 5 tional cutting processes. The entire

The Lugaia SafeSeal Crimp in 3 different sizes: S (blue), M (red), L (green)

(Double clip with axial locking mechanism)





The advantages of the SafeSeal Closure System:

- Easy handling
- High occupational safety
- Universal usability
- Low investment costs
- High quality
- Axial closure mechanism
- Guaranteed OEB 5 (<1µg / m³) Containment-Level
- 3 different sizes
- Can be expanded with a protective cap and hanger



SafeSeal

Closure System

SafeSeal Closure - how it works









Stick together

Press together

Cut through / separate

Both parts locked

Watch our video at www.lugaia.com



Application examples





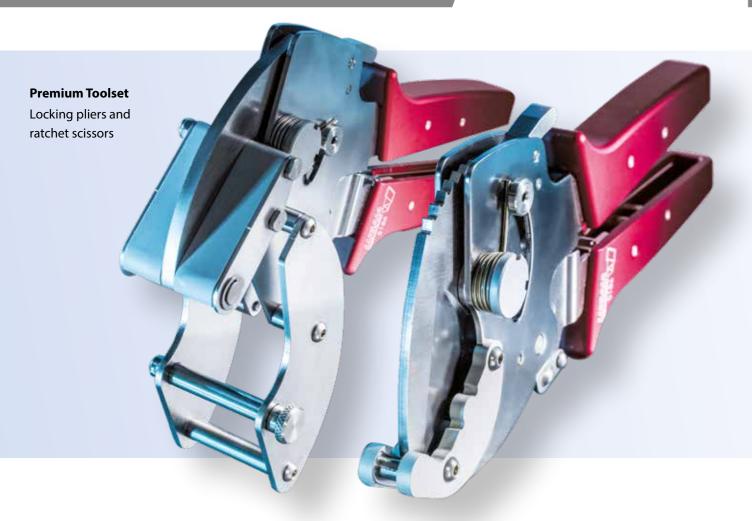


SafePortBag

RTP-Beta (CLCC)

Continuous Liner System (CLS)

Toolset Type 90 and Premium Toolset



Toolset Type 90 and Premium Toolset

Safe and ergonomic tool for closing and separating the SafeSeal Crimps

give you effective, qualitative and high-quality tools specifically designed for handling the Lugaia Safe-Seal Closures to close and separate the Continuous Liner System (CLS) properly. A Containment-Level of OEB 5 (<1µg/m³) is guaranteed. Each toolset contains one pair of ratchet scissors as well as locking pliers.

With the SafeSeal Toolsets we Both sets are useable for all SafeSeal Closure sizes. With the Premium Toolset we give you the best handling in combination with the best materials, the handles are rustproof and made of anodized aluminum. Due to corrosion resistance, the Premium Toolset is also very suitable for the process of cleaning and washing in the isolator.

Both Toolsets are available in a practical tool case!

(Contents: locking pliers and ratchet scissors)



Watch our video at www.lugaia.com

The advantages of the **Lugaia Toolsets:**

- Easy handling
- High occupational safety
- Low investment costs
- Also available as a premium version, rustproof handles made of anodized aluminum



SafeSeal

Pneumatic Tool

Lugaia SafeSeal Pneumatic Tool

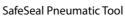
With the SafeSeal Pneumatic Tool (available for SafeSeal Closure size M and L) a partially automated closing system was developed, which excels with simple operation, high work safety, universal usability and high quality.

In connection with the SafeSeal Closures and the foils of the Lugaia Continuous Liner Systems (CLS: for standard sizes, see separate product sheet) a Containment-Level OEB 5 (<1µg/m³) is guaranteed.

The SafeSeal Pneumatic Tool is used at the end of line packaging with high filling rates.

How the SafeSeal Pneumatic Tool works







Insert SafeSeal Crimp



Two-hand operation



Activate opener



Close



Removal



The advantages of the **SafeSeal Pneumatic Tool:**

- Automatic pressing and cutting of the SafeSeal Closures
- Completely pneumatic operated (suitable for ATEX)
- Made of stainless steel
- High security through two-hand operation
- Integrable in existing systems



SafeSeal

Protective Cap and Hanging System



SafeSeal Protective Cap and Hanging System

The proven and patented SafeSeal Closure System (for crimp sizes M and L) ensures a safe closure for any foil system at Containment-Level OEB 5. To further develop the safety and ergonomics of SafeSeal, the system was expanded with an additional protective cap and a practical hanger.

The advantages of the protective cap and the hanging system:

- Cover of the SafeSeal-interface
- Additional security of the closure systems through the use of SafeSeal Closure and
- Safe suspension of the foil packaging
- Easy to open with the SafeSeal Opener

Attaching the Protective Cap



Lugaia SafeSeal Closure



Put on the protective cap



Put on cable ties



Tighten cable ties

Assembling the Hanging Tool



Slip the hanging tool on



Bend the foil



Put on cable ties



Tighten cable ties

SafeSeal

Opener

SafeSeal Opener

A sealed Liner package can be opened without additional cutting processes or the use of pointed tools; using the SafeSeal Opener (3 sizes), it can be re-opened without any problems.

Using the Opener, the SafeSeal Closure will be separated and pushed apart very quickly.



Watch our video at www.lugaia.com



Opening the lock size M (lock size S opens identically)



Lugaia SafeSeal Closure



Insert the opener, the outer crimp opens Separate the crimps



Opening the lock size L



Break open the safety brackets on both sides



Insert opener



Separate the crimps

Opening the protective cap (suspension system can be opened identically)



Installed protective cap



Loosen the cable tie cover



Loosen the cable ties



Lugaia AG **Containment Solutions**

Industriezone Basper 31 3942 Raron, Switzerland Telephone +41 (0) 27 948 45 55 Telefax +41 (0) 27 948 45 50 anfrage@lugaia.ch

Lugaia Deutschland GmbH Containment Solutions

Westendstraße 2 85084 Reichertshofen, Germany Telephone +49 (0) 8453 33 550-0 Telefax +49 (0) 8453 33 550-99 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:

- CLS Continuous Liner System
- Liner Carrier Systems
- SafeSeal Closure System
- SafePortBag
- TransferBag
- SafeFlex Isolators
- Individual special solutions

follow us on







