

STERILE CONTAINER SYSTEMS



code
K1-900 (2 Pcs)

Modular Auto Lock Mechanism

GENERAL INFORMATION ABOUT MODULAR AUTO LOCK MECHANISM

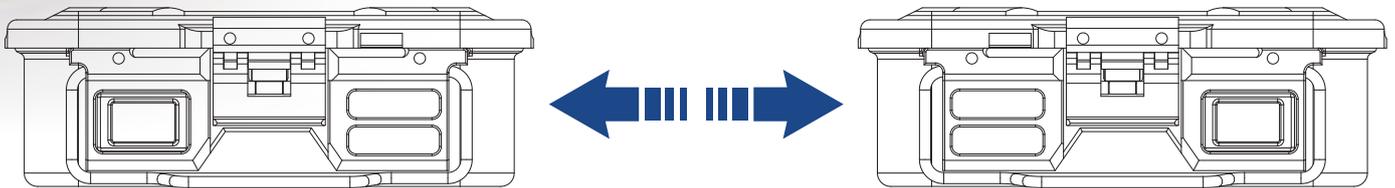


WHAT IS AUTO LOCK MECHANISM?

Auto lock mechanism is a heat-sensitive automatic locking system developed in order to ease sterilization control by R&D department.

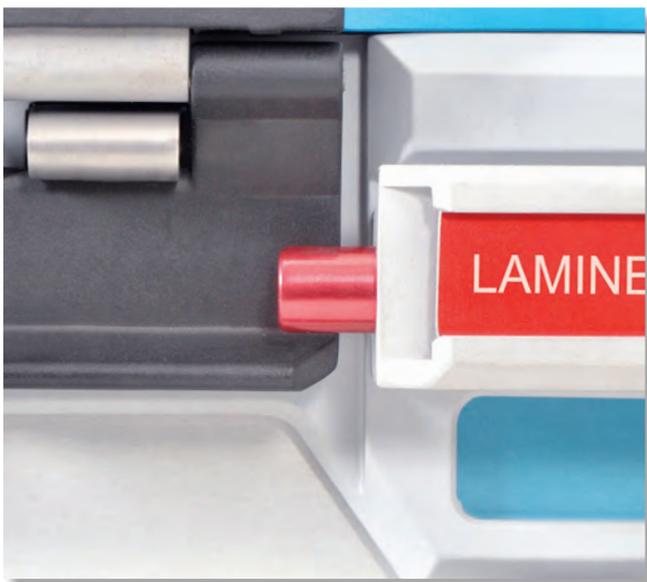


Modular auto lock system designed to be usable with different container systems which are belongs to different brands like shown below.



This system has been developed in accordance with the requirements of sterilization to be used in a steam autoclave for our container systems. Auto lock is a system designed in reusable property instead of disposable plastic products that are used as security locks in containers. The system has been tested in our own facilities 5000 cycles and has successfully passed all tests. Minimum expected life of the system is 5000 sterilizations. During this time system is usable without the need for any maintenance or service.

Picture 1 (Closed position)



HOW DOES AUTO LOCK MECHANISM WORK?

The average temperature in the autoclave during sterilization is at the level of 135 ° C degrees.

As the temperature in the autoclave begins to rise above 100 degrees, automatic locking mechanism located on the box is activated. When the mechanism is activated, the red movable locking shaft in it is going forward (Picture 1). When the movable locking shaft is going forward, it blocks the locking mechanism in lid and so it prevents uncontrolled opening of the lid.

WARNING: It's possible to move the movable shaft with only the effect of temperature. It's not possible under normal conditions to activate (to be brought into locked position) lock mechanism.

The process of the system becoming inactive is as following: After sterilization process has been completed and container has been removed from the autoclave, the container and Auto Lock system are allowed to cool between 5 and 10 minutes. Then the red movable locking shaft is pushed back with the help of fingers (Picture 3). Thus, lid closure of the container ceases to be blocked and comes to opened position.

When the container enters into each sterilization, these processes are repeated in the same manner.

When the user sees that Auto Lock mechanism is activated (Picture 1), he/she can understand that the container has entered to the sterilization process. If Auto lock mechanism is inactive (Picture 2), it means that this container has been previously opened.

WHAT ARE THE ADVANTAGES OF MODULAR AUTO LOCK MECHANISM?

- ▶ Because of system being reusable, it is more economical when you compare with plastic security seal usage.
- ▶ System is modular, so it can be usable with different brand products. In this reason, so many users can make use of system advantages.
- ▶ After the usage of disposable products, plastic material harms the nature. Because of reusable property of auto lock mechanism and because of recycling raw material inside, system does not harm the nature.
- ▶ Disposable products have many disadvantages such as purchasing, storage and inventory tracking. Auto Lock mechanism saves the user from this workload and cost.
- ▶ Disposable products must be attached to the (2) container(s) prior to each sterilization and this leads to loss of time for the employees.
- ▶ Auto Lock Mechanism removes the difficulties faced during the use of security seals. In breakdown condition, because of product is not fixed on the container, system can be easily serviceable or changeable so container does not needs replacing.

Picture 2 (Open position)



Picture 3



Picture 4 (Plastic security seal)



All our container systems with Auto Lock mechanism are designed to be used also with plastic security seal when necessary (Picture 4).

STANDARD MODEL

1

BIO-BARRIER MODEL

33

Polymers PPSU Lids

65

WINDOW MODEL

85

B₃ Barrier MODEL

103

for STERRAD

135

Dental, Mini, Special

145

BASKETS

163

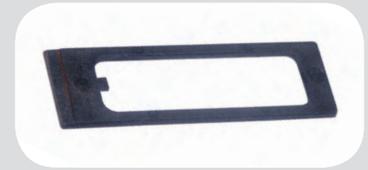
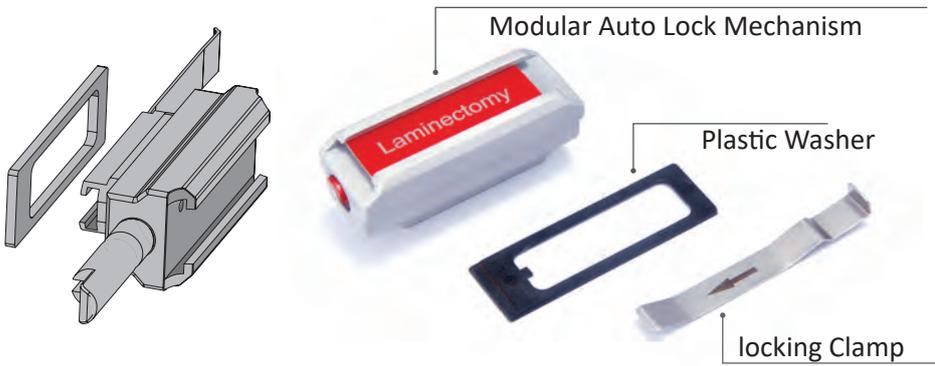
Autolock Mechanism Emulating Indicator

183

ACCESSORIES

191

ASSEMBLY AND DISASSEMBLY OF MODULAR AUTO LOCK MECHANISM



Due to container model that system will be assembled plastic washer should be removed or stay in place.



Locking clamp should be removed from the groove before assembly.



Then it should be placed to the container label part as shown picture.



When you sure that product is snug, locking clamp should be placed through the arrow direction.



Please be sure that locking stamp is forwarded to the end of the clamp groove and it is locked.

Lock mechanism should be in open position for the disassembly process (Picture 2).

It is not possible to make disassembly on closed position (Picture 1).

When you sure that lock mechanism is on open position, locking clamp can be removable by pulling backward through the reverse direction of the locking direction.



It is not possible to make disassembly on closed position

Closed position Picture 1