

# AIRmove<sup>2</sup> - *Perfect Protective Packaging* User Manual





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Dear customer,

Thank you for choosing our AIRmove<sup>2</sup>. For optimal use, please familiarize yourself with the contents of this user manual and pay special attention to our instructions concerning safe operation of the device.

**General information:**

Unless expressly authorized, reproduction, copy or translation of this device, its accessories or the technical documentation without previous approval of STOROpack GmbH + Co. KG is strictly forbidden.

**\*\*\* Conditions of use \*\*\***

**This device can only be used to manufacture packaging material made of plastic film. The user of this device is committed to follow all instructions in this guide book. The user is also entirely responsible for all safety precautions of this device.**

**In case of modification or disregard of this instruction we will cancel all warranty conditions and the manufacturer's liability.**

**STOROpack GmbH + Co. KG cannot be held responsible for any damages caused by improper use of the machine or void air cushions.**

STOROpack GmbH + Co. KG cannot be held responsible for any involuntary errors in this manual. Please, don't hesitate to forward us any proposals to improve this user manual.



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## 1. Introduction

This user manual has been compiled by STOROpack with all due care to enable safe and fault-free production of air pillows with the AIRmove<sup>2</sup> machine. Before operating AIRmove<sup>2</sup>, familiarize yourself with the contents of this user manual to guarantee safe operation. When the AIRmove<sup>2</sup> is in operation, the user must ensure that nobody will be bodily damaged due to unauthorized intervention into the production process.

## 2. Safety Instructions

To guarantee personal safety, the following instructions must be carefully observed:

### 1.) Work Area

- a. Keep the work area clean and well lit. Cluttered and dark areas invite accidents.
- b. Place the AIRmove<sup>2</sup> machine on a flat, dry surface.
- c. Do not operate AIRmove<sup>2</sup> in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Do not place flammable materials in, on or around the machine.

### 2) Electrical Safety

- a. The power plug must match the outlet and the outlet must be appropriately grounded. Do not modify the plug in any way. Do not use adapter plugs or extension cords.
- b. Do not expose the AIRmove<sup>2</sup> machine to wet conditions. As with any piece of electrical equipment, operating the machine when wet will increase the risk of electrical shock.
- c. Do not abuse the power cord. Never use the cord for carrying, pulling or unplugging the AIRmove<sup>2</sup> machine. Keep cord away from: heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electrical shock.
- d. For installation and maintenance work, the machine must always be turned off by the main switch and be disconnected from the main power connection. The machine operator must avoid any contact with the electrical parts.
- e. All safety and protective measures and facilities must have been applied and be maintained in accordance with IEC instructions (International Electrotechnical Commission).
- f. The machine instructions are provided by STOROpack's own staff or staff delegated by STOROpack. STOROpack's liability under IEC regulations no longer applies if changes or additions are made to the machine without STOROpack's permission.

### 3) Personal Safety

- a. Stay alert, watch what you are doing and use common sense when operating the AIRmove<sup>2</sup>. Do not use AIRmove<sup>2</sup> when you are tired or under the influence of drugs, alcohol or medication.
- b. Prevent accidental starting. Ensure the switch is in the off position before plugging in.
- c. Avoid loose clothing, jewelry, long hair, etc. from contact between the drive wheels. Do not place anything between the drive wheels other than STOROpack film. This includes paper, metal, tools, etc.
- d. There is an extremely sharp knife blade under the Air injector assembly. As this is a part that may wear over time and must be replaced, great care must be taken when removing and handling the blade. Strictly adhere to the blade replacement instructions in the user manual.
- e. The film is sealed by using a heated wire which is located under a Teflon belt. (below the blue protective covers). This wire gets very hot and may cause burns if touched. During normal operation the wire is not exposed, but care must be taken when replacing film or replacing the Teflon belt. Switch the machine off and allow the wire 2-3 minutes to cool down before performing any operation exposing the wire. Instructions for replacement can be found in the user manual.

### 4) AIRmove<sup>2</sup> Use and Care

- a. Switch the machine off and disconnect the plug from the power source before performing any operation to the AIRmove<sup>2</sup> machine. This includes replacing film, cleaning or maintenance.
- b. DO NOT lift using the power cord.
- c. The AIRmove<sup>2</sup> machine requires periodic cleaning – more often if operated in dirty or dusty conditions. Check for misalignment or binding of moving parts, broken parts and any other condition that may affect the operation. Do not operate a damaged machine.
- d. This system was designed for processing a specific film type. In order to guarantee smooth function, only original STOROpack's consumables should be used.
- e. In emergency situations, set the main switch to "0". The machine will be switched off within a few seconds (when indicator is turned off completely). After eliminating the emergency situation or fault, the machine can be switched on again according to the user manual.
- f. The manufacturer is not liable for any modifications of the machine which are made without written approval from STOROpack.

### 3. Declaration of Conformity

#### Declaration of Conformity

We declare under our sole responsibility that the product described as **AIRmove<sup>2</sup> machine** is in conformity with the following standards or standardization documents: 2006/42/EEC, amended by 91/368/EEC, 93/44/EEC and 93/68/EEC.

Standards; EN ISO 12100:2010 Safety of machinery.

M. Korten

Vice president Ideepak b.v.



19-09-2016, **Ideepak b.v.** Industrieweg 24, Stramproy – Holland 6039 AP

### 4. Description of AIRmove<sup>2</sup>

AIRmove<sup>2</sup> converts pre-perforated tubular films of 200 mm (8") and 400 mm (16") width into air cushions. This chapter explains the technical data, the setup and operation of AIRmove<sup>2</sup>.

#### 4.1 Technical Specifications

<b>Voltage</b>	95 – 250 VAC; 50/60 Hz
<b>Power consumption (max.)</b>	80 W
<b>Power consumption</b>	76 W
<b>Power consumption (stand-by mode)</b>	3 W
<b>Recommended main fuse</b>	3.15 AMP
<b>Dimensions</b>	370 mm x 364 mm "   14 2/3" x 14 1/3"
<b>Height</b>	329,5 mm   13"
<b>Transport speed</b>	Max. 10 m/min.   ~33 lin.feet./min
<b>Weight</b>	6.5 kg   14.3 lbs.
<b>Sound pressure level</b>	52 db

**5. Box Contents**



AIRmove<sup>2</sup> machine



Film roll holder



User Manual and Safety instructions



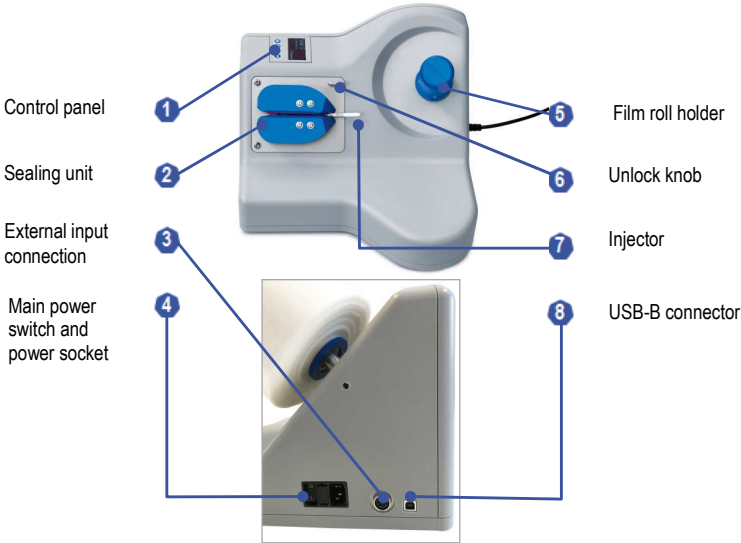
Maintenance Kit



Power cord

**6. Machine Overview**





The AIRmove<sup>2</sup> consists of the following components:



The film roll holder of the AIRmove<sup>2</sup> will be delivered disassembled.



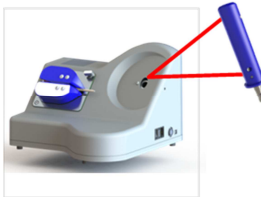
## 6.1 Keypad Functions

Position	Name	Function
	Start/Stop Button	Starts or stops the machine
	Arrow up	Increases the value Scrolls up
	Arrow down	Decreases the value Scrolls down
	Enter Button	Confirms Enter menu Enter menu item

## 7. Setting Up the Device for Use

### 7.1 Assembly of the Film Roll Holder

Remove the AIRmove<sup>2</sup> machine and the blue film roll shaft from the box. Insert the metal part into hole on the front side of the machine.



### 7.2 Film Roll Holder Positions for Smooth Film Flow

AIRmove<sup>2</sup> films are available in three different options:

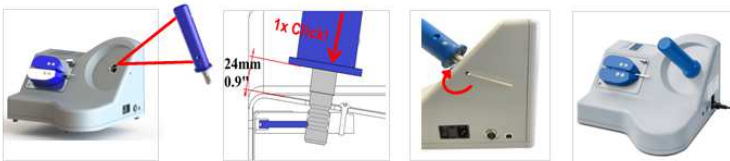
Film description	Air Pillow dimensions	Length
Void S, 25 $\mu$	200 mm x 120 mm	350 m
Bubble M, 25 $\mu$	400 mm x 160 mm (29b)	350 m
Cushion M, 25 $\mu$	400 mm x 250 mm (16p)	350 m

Film description	US Air Pillow dimensions	Length
Void S, 1.0 mil	8" x 5"	1150'
Bubble M, 1.0 mil	16" x 9.76"	1150'
Cushion M, 1.0 mil	16"x 6"	1150'

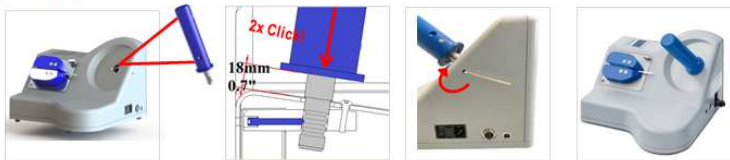
Therefore you must choose between two film roll holder positions. By loosening the screw in the cover on the right side of the machine, you can adjust the film roll holder.

You will hear and feel a “click” when the shaft arrives at each position. The screw needs to be tightened again afterwards.

### Void S + Cushion M



### Bubble M



## 7.3 Display and Keypad Location

With your Airmove<sup>2</sup> machine there are two possible display positions. To change keypad position, first make sure you disconnect from the power supply.

Remove the four screws in the cover of the machine with the provided allen key in the box. Insert the display into the desired position (see picture 1 and 2). Then replace the cover and tighten the four screws. Reconnect to the power supply to continue.



1.) Keypad front position



2.) Keypad top position

## 7.4 Fitting a New Film Roll

**Make sure the machine is not running while changing rolls!**

If there is an empty roll on the machine, remove it from the film roll holder. To fit a new film roll, please proceed as follows: Slide the new film roll onto the film roll holder. Ensure that the film is oriented to unwind from the underside of the roll.

The film roll has continuous cross perforations and a non-continuous cross-seal. There is a gap between the edge of the film and the perforations.



Cut a little corner off the film gap. Slide the gap over the white injector. Turn the unlock knob clockwise to unlock the top sealing unit. Slide the film between the sealing units as far as possible until you feel resistance.



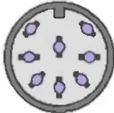
Turn unlock knob counter clockwise to lock the top sealing unit. Always make sure that the knob is locked to ensure a good seal quality!

**7.5 Power Switch and Connections**

After checking the power supply, the system can be switched on. The main switch is on position "I".



Power switch, fuse and main power entry



Circular DIN connector, 8 pins



USB B type connector

**7.6 First Parameter Set-Up**

To ensure the best quality Air pillows, Airmove<sup>2</sup> operates using three different film type menus. After fitting a film roll the appropriate film type menu must be chosen. The Start screen will appear after switching the machine on:

*Machine off*

Power switch [ 0 ]  
display off



*Power switch on first time*

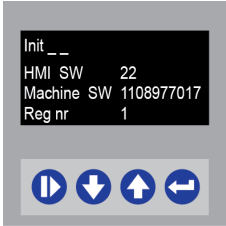


Power switch on [ 1 ]  
first display (2 sec)



*Start display*

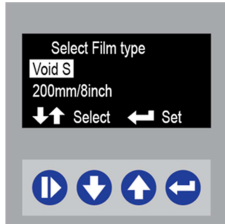
Display Software  
Machine Software  
Machine Number



There are three different film type menus available when you turn on the machine the first time.

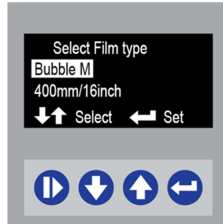
### Void S

Void S is already highlighted



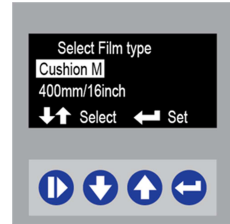
### Bubble M

Press  for Bubble M



### Cushion M

Press  for Cushion M



press to  confirm choice for

press to  confirm choice for

press to  confirm choice for

Void S as the film to process



Bubble M as the film to process



Cushion M as the film to process



## 8. Menu Structure

### 8.1 Start Film production

Once a menu is selected with its pre-set parameters the machine is ready to operate. Every menu follows the same steps:

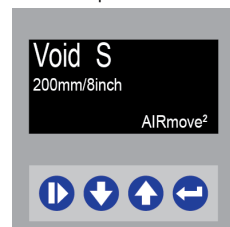
Machine is ready to start Void S film production



Press  to start Void S film production



Press  again to stop Void S film production



## 8.2 How to Adjust Air Settings

The chosen AIRmove<sup>2</sup> film type menus automatically run on the correct air and temperature settings. You do not need to adjust machine settings manually, but if the automatic settings are not optimal for some reason, the keypad allows you to change the following settings:

### Display Void S

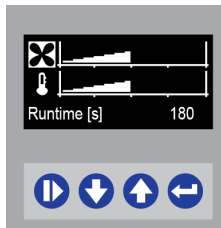
ready to start

Press 1 x  for air settings






### Display Air Settings

Amount of air is now adjustable



Press  to decrease air

Press  to increase air

Even while the machine is running press  to change air settings by using  or . While the machine is running the Runtime sign will not show up.

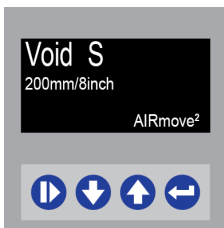
## 8.3 How to Adjust Sealing Temperature

The chosen AIRmove<sup>2</sup> film type menus automatically run on the correct air and temperature settings. You do not need to adjust machine settings manually, but if the automatic settings are not optimal for some reason, the keypad allows you to change the following settings:

### Display Void S

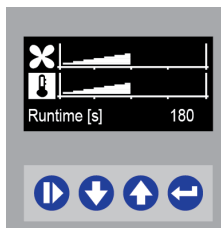
ready to start

Press 2 x  for temperature settings






### Display Temperature Settings

Sealing temperature is now adjustable



Press  to decrease temperature

Press  to increase temperature

Even while the machine is running press  to change temperature settings by using  . While the machine is running the Runtime sign will not show up.

## 8.4 How to Adjust Runtime

To produce a desired amount of air pillows, a specific Runtime can be set. Runtime is indicated in seconds and its factory settings are 180 sec. The set Runtime will run down to "0" and production will stop.

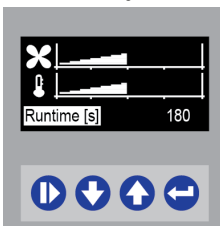
### Display Void S


Press 3 x  to get to the Runtime Menu




### Change Runtime settings

Minimum setting is 1 sec  
Maximum setting is 2400 sec.



Press  to decrease runtime

Press  to increase runtime

## 8.5 How to Use External Input Devices


Use the Circular DIN connector to attach the external input device.

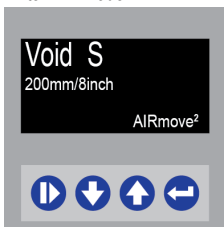


External start and stop devices enable an ergonomic operation of the machine. A foot pedal allows hand-free production of air cushions, a push-button allows easy operation when the machine is out of reach. The Extern IN mode enables you to use an external device, which will be connected to the machine. Following options are available for the Extern In Mode:

### 8.6 Extern IN Mode 0

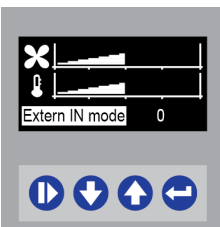
#### Display Void S

Ready to start  
Press 4 x  to change Extern IN mode




#### Extern IN mode


Possible options [ 0 ], [ 1 ]  
and [ 2 ].



Press  or  to adjust the desired Extern IN mode

You can choose between manual and device control options (foot pedal or push button).


A Manually Start: push 

Stop: push 

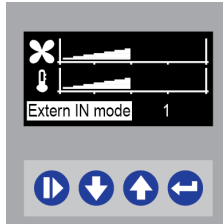
B Ext. Device Start: press down and release pedal

Stop: press down and release pedal

## 8.7 External Input Mode 1

Ready to start  
Press 4 x  to change  
Extern IN mode

Press  to set  
Extern IN Mode 1



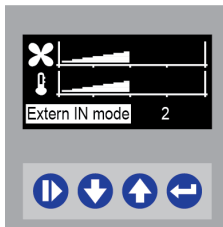
You can choose between manual and device control options (foot pedal or hand-buzzer).

A Manually Start: push  Stop: push 


B Ext. Device Start: press down pedal Stop: release pedal

## 8.8 External Input Mode 2

**External input mode on [ 2 ]** the machine works as using mode [ 1 ] but has a stop delay option.



You can choose between manual and device control options (foot pedal or push button).

A Manually Start: push  Stop: push 


B Ext. Device Start: press down pedal Stop: release pedal  
(stop, if stop delay time has gone by)

With **External input mode on 2**, a **stop delay** is set. Ex-works settings for **Extern stop delay** are 7 sec.



### 8.9 Mode 2 Stop Delay

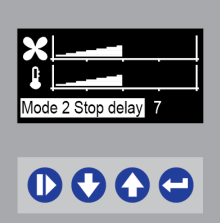
#### Display Void S


ready to start  
Press  to change stop delay




#### Change Mode 2 Stop Delay

Stop delay is indicated in seconds



Press  decrease stop delay

Press  increase stop delay



### 8.10 How to Change Film Type

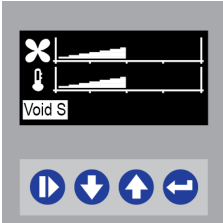
Changing the menu to a new film type when loading a different kind of film.

#### Display Void S

Press 6 x  until film type shows up

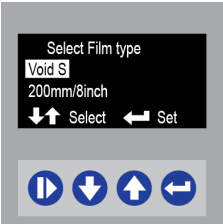


Press  or  to change the film type



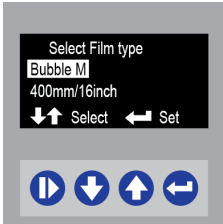
#### Selection Void S

Press 1 x  to change to Bubble M



#### Selection Bubble M


Press  and Bubble M will be set

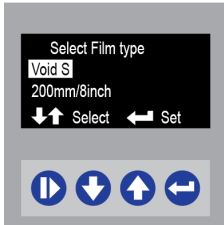


#### Bubble M




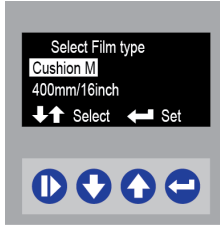
### Selection Void S

Press 2 x  to change to Cushion M



### Selection Cushion M

Press  and Cushion M will be set



### Cushion M

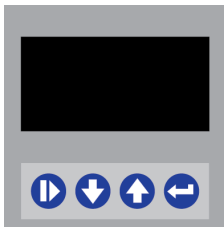




## 8.11 Factory settings

The ex-works setting enables resetting all choices, parameters, adjustments and changes back to the factory settings.

### Machine off

Power switch [ 0 ]  
display off

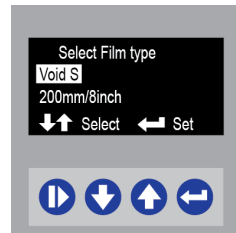


Press  +   
and hold while switching on the machine.

Release the buttons  +  when the display runs

### Power switch on

Power switch on [ 1 ]



All settings have been reset, proceed with section "First-parameter Set-up" again to choose a film type.

## 9. External Start and Stop Devices

External start and stop devices enable an ergonomic operation of the machine. A foot pedal allows hand-free production of air cushions, a push button allows easy operation when the machine is out of reach.



Foot controls allow the worker to activate the film production manually by pressing down on a foot switch or pedal, leaving the hands free during the production process.

The Extern IN mode of the AIRmove<sup>2</sup> is for remote control with an external device, foot pedal or on/off knob, connected to the machine.



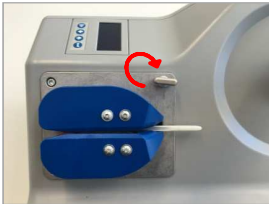
AIRmove<sup>2</sup> can also be equipped with a push button which enables easy use when the machine is out of reach.

10. Troubleshooting AIRmove<sup>2</sup>

Possible Problem	No power	No display after power on (?)	Film seal is not start	Bad film seal	Film does not run through	Air cushions do not hold air	Film jams occur frequently	Film run blockage	Film winding around rollers
<b>Solution</b>									
Check power cord is in machine or outlet	✕								
Check main power is on	✕								
Check power fuse	✕	✕							
Film roll is installed the wrong way								✕	
Check film type selection					✕	✕			
Check transport belt if damaged					✕			✕	
Check if sealing jaw is closed					✕		✕	✕	
Check if film roll shaft is in the right position					✕	✕		✕	
Check knife or guiding pin					✕		✕	✕	
Adjust the temperature					✕	✕			
Adjust the airflow						✕			
Check if film roll shaft is jammed							✕		✕
Remove any film causing blockage								✕	✕
Check film run on machine							✕		✕
Contact Storopack at <a href="mailto:info@storopack.com">info@storopack.com</a>			✕	✕				✕	

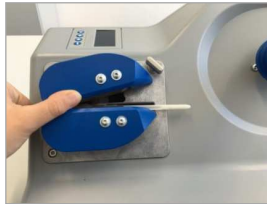
## 11. How to Change Wear Parts

We recommend regular maintenance of the machine to ensure the ideal workings of your STOROpack AIRmove<sup>2</sup>. With your care and maintenance, you can ensure that the best possible packaging process is provided. Only about 10 minutes are required for maintenance and no prior technical knowledge.

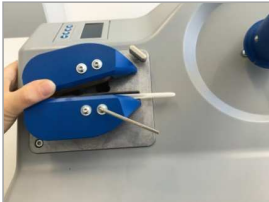


1. To exchange the injector: First make sure you disconnect from the power supply.

Turn the unlock knob clockwise to unlock the top sealing unit.



2. Now the top sealing unit can be moved.



3. Loosen the covers using the enclosed allen key.



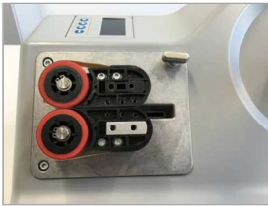
4. Keep the top sealing unit open.



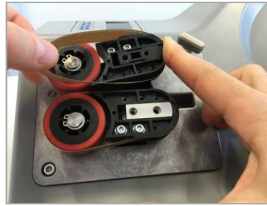
5. Pull the injector to the right side.  
**As there is a knife attached to the injector be very careful while changing it!!!**



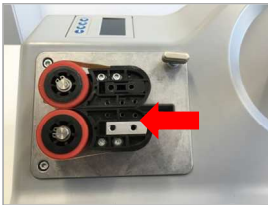
6. Take it out of the machine and insert a new one. Turn unlock knob counter clockwise to lock the top sealing unit. Always make sure that the knob is locked to ensure a good seal quality! **As there is a knife attached the injector be very careful while changing it!!!**



7. First push the top sealing unit to the left.



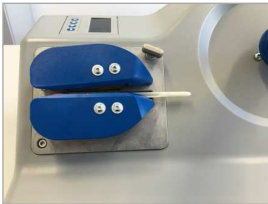
8. Remove the teflon band while holding up the top sealing unit a little bit and replace the teflon band the same way.



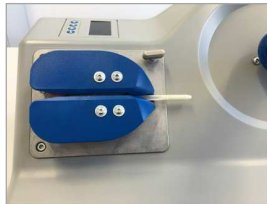
9. Secondly push the bottom part to the left.



10. Remove the bottom teflon band while holding up the top sealing unit a little bit and replace the teflon band the same way.



11. Reinstall the blue covers. Turn unlock knob counter clockwise to lock the top sealing unit.



12. Always make sure that the knob is locked to ensure a good seal quality!



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