



Operating Manual

# PremAire Escape

Self-Contained Compressed Air Breathing Apparatus for Escape

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Order No. D4088228/00

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# 1 Safety Regulations

## 1.1 Correct Use

### According to EN 402

The PremAire Escape, hereafter referred to as device, is a positive pressure self-contained breathing apparatus (SCBA) for escape with rated service duration depending on filling pressure and cylinder size used (see table below). The complete device is stored in a bag for easy access in an emergency situation. The device enables the wearer to escape from a potentially hazardous atmosphere.

### According to ISO 23269-1

The PremAire Escape with 3 l/300 bar or 2 l/300 bar cylinder, hereafter referred to as device, is an Emergency Escape Breathing Device (EEBD) for shipboard use with rated service duration depending on filling pressure and cylinder size used (see table below). The device enables the wearer to escape from a potentially hazardous atmosphere.

### Rated Service Duration

Cylinder size	Rated service duration based on 35 l/min breathing rate	
	Filling pressure 200 bar	Filling pressure 300 bar
2 l	10 min	15 min
3 l	15 min	20 min

### General Safety Regulations

 **WARNING**

This device is a pure gas protection device. It is not suitable for underwater diving.

 **WARNING**

Only trained individuals should be allowed to use the device after ensuring sufficient knowledge on donning, removing and general use of the device. Failure to follow this warning can result in serious personal injury or death.

 **WARNING**

This device is for escape only and not intended for work.

It is imperative that this operating manual be read and observed when using the product. In particular, the safety instructions, as well as the information for the use and operation of the product, must be carefully read and observed. Furthermore, the national regulations applicable in the user's country must be taken into account for a safe use.



**WARNING**

This product is supporting life and health. Inappropriate use, maintenance or servicing may affect the function of the device and thereby seriously compromise the user's life.

Before use the product operability must be verified. The product must not be used if the function test is unsuccessful, it is damaged, a competent servicing/maintenance has not been carried out, genuine MSA spare parts have not been used.

Alternative use, or use outside this specification will be considered as non-compliance. This also applies especially to unauthorised alterations to the product and to commissioning work that has not been carried out by MSA or authorised persons.

**1.2 Liability Information**

MSA accepts no liability in cases where the product has been used inappropriately or not as intended. The selection and use of the product are the exclusive responsibility of the individual operator.

Product liability claims, warranties also as guarantees made by MSA with respect to the product are voided, if it is not used, serviced or maintained in accordance with the instructions in this manual.

**1.3 Safety and Precautionary Measures**

- Approved for use at temperatures between -40 °C and +60 °C.
- The device may be used in explosive atmospheres according to the class stated in the ATEX certification.
- If the device is used in an explosive atmosphere, dissipative clothes and footwear must be used in conjunction with dissipative grounds.
- Use and storage of the device in a vicinity that generates strong electrostatic charges in explosive atmospheres is not allowed.
- In the presence of explosive atmospheres it is not allowed to remove the pressure cylinder from the bag.
- Check that the device shows no visible damage. This includes mechanical damages, corrosion or material changes caused by environmental stress or contamination.



Only use breathable air quality in accordance with EN 12021 or other applicable national regulations.

## 2 Description

The PremAire Escape is a positive pressure self-contained open-circuit compressed air breathing apparatus (SCBA) for escape.

The device consists of either a full face mask or a mask-hood, both connected to a lung-governed demand valve (LGDV). The LGDV is connected to a compressed air cylinder via a medium pressure hose and the combination valve autostart (CVA). The device is stored ready for operation in its carrying bag and is started automatically providing air when the bag is opened.

The device is designed in accordance to EN 402 and ISO 23269-1 and enables the wearer to escape from a potentially hazardous environment.

The device consists of:

- |    |                                  |    |                                    |
|----|----------------------------------|----|------------------------------------|
| 1a | Mask-hood                        | 5a | Combination valve autostart (CVA)  |
| 1b | Positive pressure full face mask | 5b | CVA with warning signal (optional) |
| 2  | AutoMaXX handwheel               | 6  | Excess flow valve (EFV) (optional) |
| 3a | LGDV AutoMaXX ASE                | 7  | Compressed air cylinder            |
| 3b | LGDV AutoMaXX ASE, Y-FF          | 8  | Waist belt (optional)              |
| 4  | Quick-Fill adapter (optional)    | 9  | Carrying bag with neck strap       |
|    |                                  | 10 | Starter key                        |

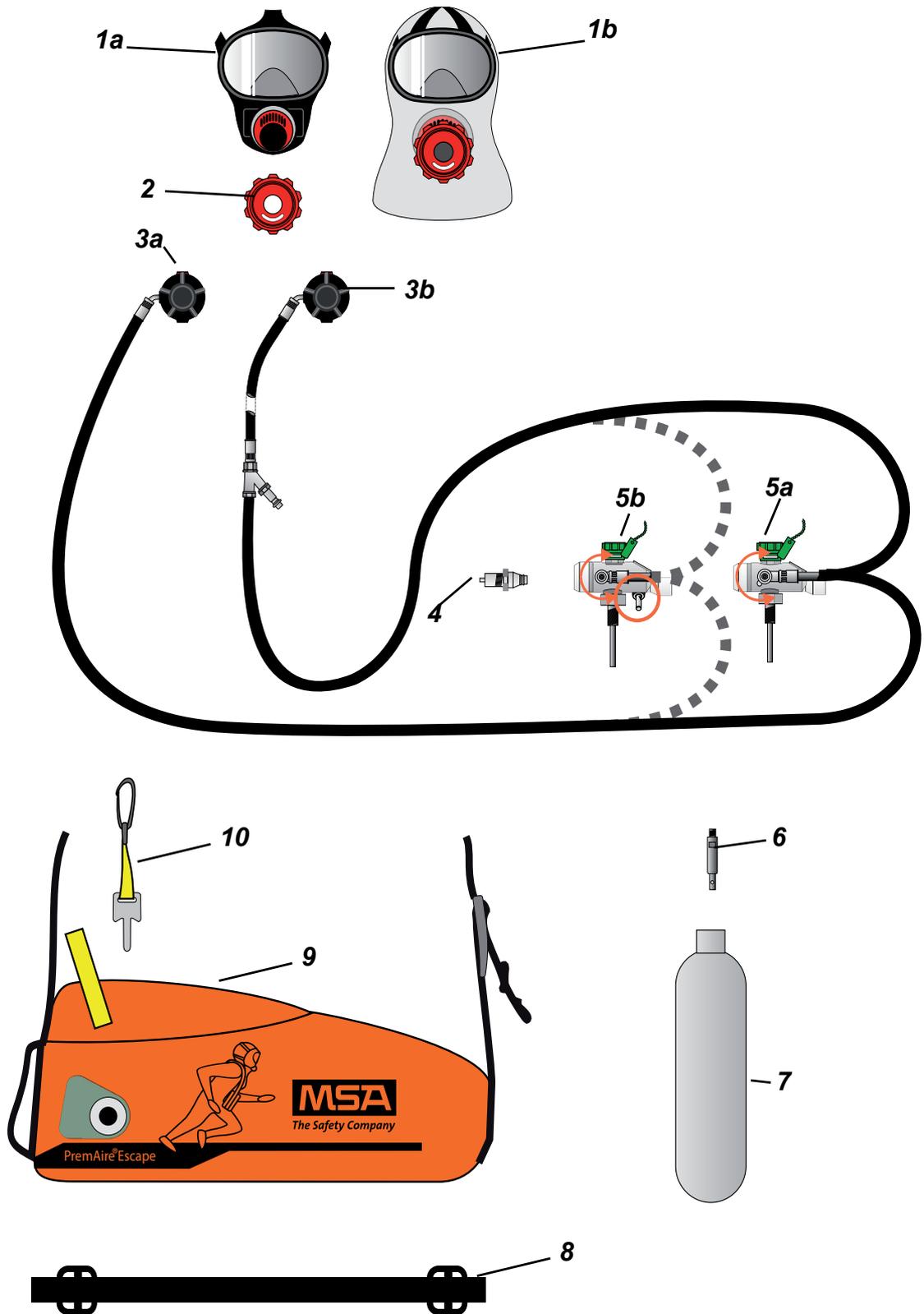


Fig. 1 Overview (not true to scale)

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### 2.1 Positive Pressure Full Face Mask

The face blank is made of a special soft rubber compound and assures a snug, comfortable fit and a tight seal.

The inhalation air flows from the connector of the mask past the inhalation valve to the inside of the lens (thus keeping the lens largely fog-free) and then through the check valves into the nose cup. The exhalation air passes through the exhalation valve directly to the ambient air.

The LGDV AutoMaXX ASE is permanently connected via the autoMaXX handwheel (according to EN 148-3) to the full face mask to enable a quick start in an escape situation.

The full face mask is in accordance with EN 136, Cl. 3.

For additional information see full face mask manual.

### 2.2 PremAire Mask-Hood

The PremAire Mask-Hood consists of a positive pressure full-face mask (3S type) with a M45x3 threaded connection (according to EN 148-3) for the LGDV, a hood and an easy-to-handle harness. The harness is located on the outside of the hood for better reach.

The hood covers the head and neck area and offers an additional seal. A tension ring inside the hood keeps the hood open when folded for easy donning.

The inhaled air flows from the LGDV via the connector of the mask-hood past the inhalation valve to the inside of the lens (thus keeping the lens largely fog-free) and then through the check valves into the nose cup. The exhaled air coming out of the exhalation valve flushes the hood and then streams out of the neck sealing area to the ambient atmosphere. This flushing provides a slight positive pressure inside the hood, depending on how tight the neck strap is closed.

The face blank is made of a special soft rubber compound and assures a snug, comfortable fit and a tight seal.

The LGDV AutoMaXX ASE is permanently connected to the mask-hood to enable a quick start in an escape situation.

The mask-hood is in accordance with EN 136, Cl. 3.

For additional information see mask-hood operating manual.

### 2.3 Lung Governed Demand Valve

The positive pressure LGDV is permanently connected via the AutoMaXX handwheel (according to EN 148-3) to the mask-hood or full face mask. The medium pressure hose of the AutoMaXX ASE is directly connected to the CVA.

The medium pressure hose of the AutoMaXX ASE, FF-Y has a Y-piece in the middle of the hose to enable the user to connect to an air supply via a non-return nipple with flush function and check valve during longer escape situations. The LGDV is stored in the carrying bag in standby position.

For additional information see AutoMaXX-ASE manual.

#### 2.4 Combination Valve Autostart (CVA)

The CVA consists of a combined high pressure valve and a first stage pressure reducer valve. The CVA is securely screwed into the compressed air cylinder. The starter housing with the inserted starter key is part of the CVA. Pulling the bag open with the yellow opening loop pulls the starter key out of the starter housing. The air supply is activated.

The valve assembly consists of:

- handwheel to manually open and close cylinder air supply, in combination with the starter key
- recessed/ protected pressure gauge to permanently indicate the filling status of the cylinder by showing the air pressure
- filling connector 300 bar G 5/8" according to EN 144-2 with non-return valve to pressurise the cylinder
- high pressure burst cap to protect cylinder from over-pressurisation
- medium pressure relief valve to protect medium pressure system from over-pressurisation
- first stage pressure reducer valve to reduce cylinder pressure to a suitable medium pressure
- cylinder connector that conforms to EN 144-1
- acoustic end of service time warning signal (optional)
- water tube or excess flow valve (optional)

#### 2.5 Compressed Air Cylinder

For additional information see Compressed Air Cylinders manual.

## 2.6 Quick-Fill Adapter (Optional)

The Quick-Fill adapter is screwed into the cylinder filling port. For permanent attachment a fastening torque of 10 Nm is recommended. It is accessible from the outside of the bag after removing the protection cap. The Quick-Fill System permits a quick refilling of the compressed air cylinder while the breathing apparatus is in use. In this device configuration with non-return valve it is not possible to provide air. Only receiving air is intended!

For additional information see Quick-Fill System manual.



Fig. 2 Location of Quick-Fill adapter

1 Quick-Fill adapter

## 2.7 Carrying Bag with Neck Strap and Waist Belt (Optional)

The antistatic carrying bag contains the device and is equipped with an adjustable neck strap and a waist belt (optional) for carrying. The bag is closed by a flap with velcro fastener. On the outside are two loops. The black retaining loop is for holding the bag during opening. The yellow opening loop, which is connected on the inside via a string to the starter key, opens the flap. Pulling the bag open with the yellow loop pulls the starter key out of the starter housing. This activates the air supply.

For protection, a bag reinforcement plate is located on the bottom of the bag.

The compressed air cylinder is strapped into the carrying bag and the pressure gauge can be read through a window in the bag. Rated working durations and donning pictograms are shown on the bag.



Fig. 3 Open bag with started device

### 3 Use

**WARNING**

Only trained individuals should be allowed to use the device after ensuring sufficient knowledge on donning, removing and general use of the device. Failure to follow this warning can result in serious personal injury or death.

**WARNING**

Never use the escape device for working assignments! This escape device is designed for escape purposes only as per EN 402 and ISO 23269-1. Follow company safety guidelines to implement escape procedures. Failure to follow this warning can result in serious personal injury or death!

**WARNING**

The device may only be put into use in a fully maintained and tested condition. If malfunctions or defects are noticed prior to use, do not use the device under any circumstances. Get the device checked and repaired by an MSA authorised service centre.

**WARNING**

Take care not to damage the device during carrying, donning and servicing.

#### 3.1 Preparations for Use

- (1) Check the pressure gauge daily to ensure a fully pressurised cylinder.
  - ▷ At room temperature the pressure value has to be min. 200/300 bar.
- (2) Check that the bag is clean, sealed with an anti-taper tag and undamaged.
  - ▷ The device has to be ready for immediate emergency use.

**WARNING**

When used in low temperatures, it is recommended to keep the mask-hood/full face mask warm (> 0 °C) to ensure the sealing area is flexible when donning.

## 3.2 Donning the Device

### Donning the Device with Mask-Hood

- (1) Place neck strap over your head.
- (2) Adjust the neck strap.



- (3) Grab the neck strap/black retaining loop with one hand.
- (4) Grab the yellow opening loop with the other hand.
- (5) Open the bag by pulling on the yellow loop.
  - ▷ The air supply is activated.

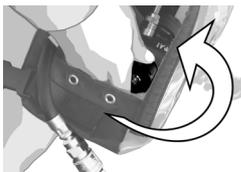


If the bag cannot be opened as described above (e.g. while standing on a ladder), open the velcro fastener first partially on one side with two fingers. Then open the bag completely by pulling on the yellow loop to activate air supply.

If the CVA is not activated:

This can happen when the starter key is not connected to the opening loop.

In this case, open the valve manually by turning the handwheel anti-clockwise.



- (6) Grab mask-hood by the LGDV.





- (7) To ensure quick donning, slip the mask-hood over the face from back of the head.



- (8) Make sure that chin and nose are properly covered by the facepiece.  
 (9) To activate LGDV, inhale once forcefully or push the flush button.

**WARNING**

When using the flush button the compressed air consumption increases.

**WARNING**

If the device is used in a hazardous area it is recommended to activate the LGDV by pushing the flush button for 2 seconds before starting breathing. With this procedure poisoned air could be flushed out of the mask-hood.



- (10) Pull firmly on the head straps on both sides to tighten as shown.



(11) Pull firmly on the neck string until a tight fit at the neck is achieved.

(12) Secure neck string with the stopper.

▷ This ensures an additional neck seal of the hood

During use head straps and neck string can be readjusted to ensure a consistent proper fit of the mask-hood.

(13) Close and adjust waist belt if applicable.



### WARNING

If a waistbelt is provided, it has to be closed to prevent risk of tripping.



(14) Escape immediately and return to uncontaminated and non-hazardous area.

(15) Check pressure gauge regularly

The optional warning signal starts between 25 bar and 35 bar and sounds until the end of air supply.

Remove device only in an uncontaminated area outside of explosive atmospheres.

### Donning the Device with Full Face Mask

- (1) Place neck strap over your head.
- (2) Adjust the neck strap.



- (3) Grab the neck strap/black retaining loop with one hand.
- (4) Grab the yellow opening loop with the other hand.
- (5) Open the bag by pulling on the yellow loop.
  - ▷ The air supply is activated.

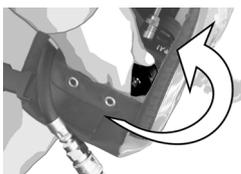


If the bag cannot be opened as described above (e.g. while standing on a ladder), open the velcro fastener first partially on one side with two fingers. Then open the bag completely by pulling on the yellow loop to activate air supply.

If the CVA is not activated:

This can happen when the starter key is not connected to the opening loop.

In this case, open the valve manually by turning the handwheel anti-clockwise.



- (6) Grab full face mask by the LGDV.





- (7) Press full face mask on face to create a tight face seal.
  - ▷ A tight face seal is required to create sufficient negative pressure.
- (8) To activate LGDV, inhale once forcefully or push the flush button.

**WARNING**

When using the flush button the compressed air consumption increases.

**WARNING**

If the device is used in a hazardous area it is recommended to activate the LGDV by pushing the flush button for 2 seconds before starting breathing. With this procedure poisoned air could be flushed out of the full face mask.



- (9) Quickly don full face mask.



- (10) Tighten straps.

- (11) Close and adjust waist belt if applicable.

**WARNING**

If a waistbelt is provided, it has to be closed to prevent risk of tripping.



- (12) Escape immediately and return to uncontaminated and non-hazardous area.
- (13) Check pressure gauge regularly

The optional warning signal starts between 25 bar and 35 bar and sounds until the end of air supply.

Remove device only in an uncontaminated area outside of explosive atmospheres.

### 3.3 Longer Escape durations

If longer escape durations are required, the following options are available:

#### Y-piece Connection to Rescue Airline (If Applicable)

The PremAire Escape can be equipped with a Y-piece with a non-return nipple with flush function and check valve (optional) to enable a connection to a rescue airline e. g. in "safe havens". The operation pressure of the compressed air feeding hose should be between 6.0 bar and 8.5 bar.

**WARNING**

If a rescue airline is used in hazardous atmospheres, it is necessary to use an additional flush coupling on the rescue airline to ensure clean air is supplied to the user. For more information, contact MSA.

The Y-piece enables breathable air supply (air quality in accordance with EN 12021) from both connections. If the Y-piece is connected to a rescue airline and to save the remaining cylinder pressure, it is necessary to close the CVA and to breathe only through the airline connection.

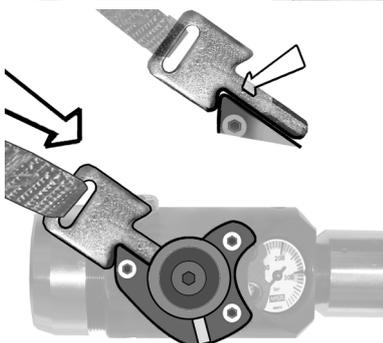
Closing the CVA:



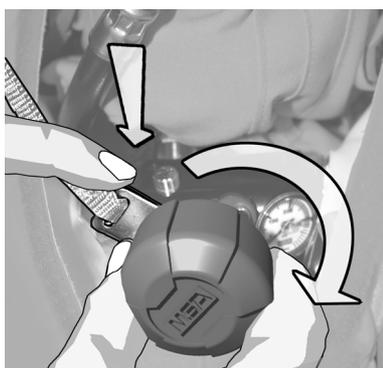
- (1) Check cylinder pressure and close the CVA.
- (2) Unclip the starter key from bag flap.



- (3) Open handwheel on CVA completely (anticlockwise).



- (4) Insert starter key into the CVA key slot.  
▷ Align key as shown.



- (5) Close handwheel completely (clockwise) while holding the starter key in place.  
▷ The key must stay in place after closing the handwheel.



- (6) Connect the starter key string to the D-ring to avoid losing the key

**To continue escape, return to escape function:**

- (7) Check cylinder pressure to ensure that sufficient air is available before disconnecting from the rescue airline.  
(8) Pull the starter key.  
(9) Disconnect Y-Piece and continue escaping.

The Y-piece function is only certified for this emergency air supply situation and not certified for use as an airline breathing apparatus.

### Refilling the Cylinder via Quick-Fill System (if Applicable)

See chapter 5.2 for details.

### Exchange the Cylinder (Optional)

PremAire Exchange Cylinders are devices which can be connected via the Y-piece (optional) to the PremAire Escape system without interrupting the air supply to the user.

For additional information see PremAire Exchange Cylinder manual.

## 3.4 After Use



### WARNING

To be able to remove the device fast enough when reaching the end of the air supply, it can be necessary to take off gloves first.

Remove device only in an uncontaminated area.

### Removing the Mask-Hood



- (1) Open the neck string



- (2) Loosen the head straps: Press the buckles forwards to open the harness.



- (3) Grab the mask-hood by the connector and pull mask-hood off backwards.
- (4) Push the red stand-by button of the LGDV to switch off the air flow.
- (5) If possible store LGDV with mask-hood in the carrying bag.

### Removing the Full Face Mask

- (1) Loosen the head harness, press the buckles forwards using the thumbs.



Do not grip the full face mask by the exhalation valve!

- (2) Grip the full face mask by the connector and pull off backwards over your head.

### Disconnecting the Carrying Bag

- (1) Disconnect the waist belt buckle if applicable
- (2) Slide the neck strap up and over the head.
- (3) Push the red stand-by button of the LGDV.
  - ▷ Make sure the LGDV is shut off.
- (4) Put device components back into carrying bag.
- (5) Hand over device to service.



#### WARNING

Do not throw off the compressed air breathing apparatus. This could damage the valve and any remaining compressed air could escape suddenly.

This could cause fatal injury to you or to any bystanders.



#### WARNING

After use the device has to be serviced to be ready to operate!

## 4 Cleaning

### CAUTION

For cleaning, do not use organic solvents, such as nitrous dilution, alcohol, spirits, gasoline, trichloroethylene, etc.

### CAUTION

Clean the device immediately after using it in salty atmospheres, all salt must be removed to avoid damage to the device.

### CAUTION

In order to prevent damage to the device, it must not be immersed in cleaning solutions or in water. Cleaning and disinfection must be performed with a soft cloth.  
Avoid drying in direct sunlight or radiated heat.

Completely dry all components in a drying cabinet at max. 50°C.

### 4.1 Disassembling for Cleaning

- (1) Unclip the starter key from bag flap.
- (2) Open handwheel on CVA completely (anticlockwise).
- (3) Insert starter key into the CVA key slot.
- (4) Close handwheel completely (clockwise).
- (5) Press the flush button of the LGDV to depressurizes the system.
- (6) Disconnect LGDV from mask-hood or full face mask by turning the AutoMaXX handwheel anticlockwise
- (7) Press the stand by button to shut off the system.

### 4.2 Cleaning/Disinfection Mask-Hood or Full Face Mask

The cleaning/disinfection of of mask-hood or full face mask is performed in accordance with the suitable manual.

### 4.3 Lung Governed Demand Valve

For cleaning/disinfection instructions of the LGDV, see AutoMaXX manual.

### 4.4 Compressed Air Cylinder

For cleaning instructions of the cylinder, see Compressed Air Cylinder manual.

## 5 Filling the Compressed Air Cylinder



### WARNING

When handling compressed air cylinders, observe the Compressed Air Cylinder manual and the safety instructions specified in it.

Improper handling of compressed air cylinders can have fatal consequences for you and others.



### WARNING

Applicable national regulations must be observed.

Only breathing air in accordance with EN 12021 or better may be used.

Compressors and filling devices may only be operated by trained personnel. All warning and safety instructions must be observed.



### WARNING

The starter key must be in place on the CVA for filling.



### WARNING

Compressed air cylinders may only be filled in non-explosive atmospheres. As a result of the air compression cylinders are getting hot during the filling cycle. Cylinders must cool down below 60 °C before being used in explosive atmospheres.

It is not necessary to take the compressed air cylinder out of the carrying bag for refilling.

- (1) Unclip the starter key from bag flap.
- (2) Open handwheel on CVA completely (anticlockwise).
- (3) Insert starter key into the CVA key slot.
- (4) Close handwheel completely (clockwise) for refilling the cylinder.
- (5) Depressurise the medium pressure system:
  - ▷ Push the flush button first and then close the medium pressure system by pushing the stand-by button.

For detailed information regarding filling see the Compressed Air Cylinder manual and maintenance specialist manual.

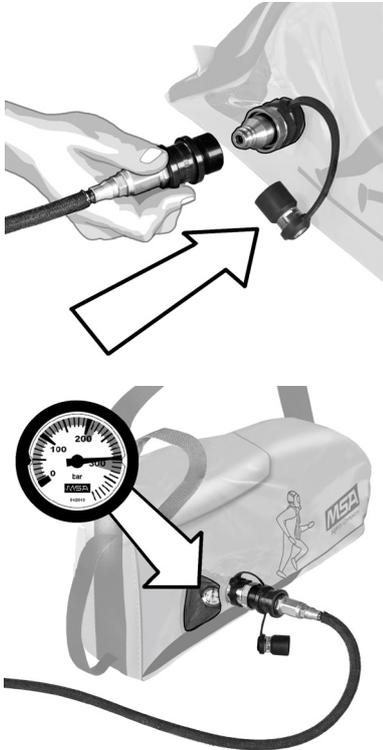
### 5.1 Filling Connector 300 bar

The device is equipped with a 300 bar G 5/8" thread filling connector according to EN 144-2.

- (1) Remove the protection cap from the filling connection.
- (2) Connect the filling connector to a 300 bar filling connection of a compressor and fill to 200/300 bar.  
Follow the compressor instructions and use the relevant adaptor if required.
- (3) Depressurise the medium pressure system:
  - ▷ Push the flush button first and then close the medium pressure system by pushing the stand-by button.

### 5.2 Quick-Fill System (Optional)

If the device is equipped with a Quick-Fill system see Quick-Fill System manual.



- (1) Remove protection cap.
- (2) Connect the filling hose to the Quick-Fill adapter.
- (3) Fill to the nominal pressure of 200/300 bar.
- (4) Depressurise the medium pressure system:
  - ▷ Push the flush button first and then close the medium pressure system by pushing the stand-by button.

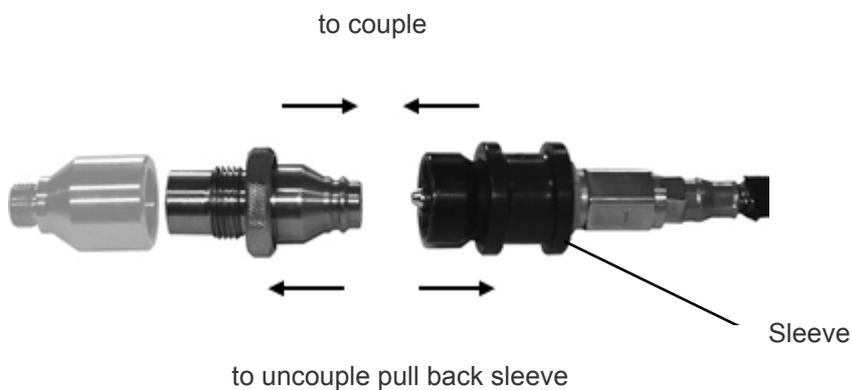


#### WARNING

Depending on the pressure and the volume of cascade cylinders used, and the number of users the achievable filling pressure will vary!  
This influences the possible duration of air supply!

Quick-Fill adapter

Filling hose coupling



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### CAUTION

Couplings are precision components!

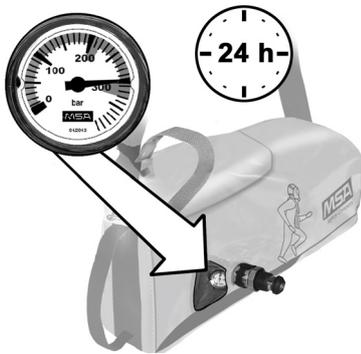
Immediately after use the couplings should be closed with the protective caps to prevent dirt and dust from entering and to assure that the couplings can continue to be used easily and safely.



- Close the coupling with the protective cap.

### 5.3 After Filling

As a result of the air compression cylinders are getting hot during the filling cycle. Since composite materials are good insulators the heat generated takes longer to dissipate on the cylinder surface. The temperatures may reach approx. 70 °C.



- (1) After returning to ambient temperatures check if the filling pressure of 200/300 bar is reached.
  - ▷ If necessary, top up pressure.
- (2) After filling, the cylinders must be checked for tightness.

## 6 Maintenance

This product should be regularly checked and serviced by trained specialists. Inspection and service records must be maintained. Always use original parts from MSA.

Repairs and maintenance must be carried out only by authorised service centres or by MSA. Changes to devices or components are not permitted and will result in loss of approval.

MSA is liable only for maintenance and repairs carried out by MSA.

Inspect the entire device after it is cleaned and disinfected.

 **WARNING**

If the device does not meet any of the following inspections, it must be removed from service.

 **WARNING**

Take care not to damage the device during carrying, donning and servicing.

### 6.1 Maintenance Intervals

Component	Work to be performed	After use	Annually	Every 10 years***)
PremAire Escape	Cleaning*)	X		X
	Visual inspection (see chapter 6.5 and 6.6)	X	X	
	Sight, function and tightness check see Maintenance Specialist manual.	X	X	
	Overhaul			X**
LGDV/mask-hood/full face mask/cylinder	See LGDV/mask-hood/full face mask/cylinder instruction manuals. Applicable national regulations must be observed.			

\*) Clean if necessary

\*\*) or after 2000 activations

\*\*\*) Every 5 years in Germany according to BGR 190

### 6.2 Mask-Hood

For detailed instructions see Mask-Hood manual.

### 6.3 Full Face Mask

For detailed instructions see Full Face Mask manual.

### 6.4 Lung Governed Demand Valve

For maintenance of the LGDV, see AutoMaXX manual.

**6.5 Visual Inspection CVA and Cylinder**

- (1) Inspect the CVA for signs of damage.
- (2) Inspect the cylinder body for cracks, dents, weakened areas, corrosive agent, causing the fibers to break or peel, or signs of heat-related damage.
- (3) Check the test date on the cylinder approval sticker located on the cylinder neck. Observe test intervals according to local regulations.
- (4) Be sure that the gauge needle and face are clearly visible through the lens.
- (5) Inspect the intermediate pressure relief valve. Verify that the relief holes are clear and free of debris or other contamination.
- (6) Verify that all lines are properly connected.
- (7) Inspect the filling connector. Verify that the protection cap or a Quick-Fill adapter with protection cap is properly connected.

**6.6 Visual Inspection of Carrying Bag with Neck Strap and Waist Belt (if Applicable)**

- (1) Inspect the bag with straps for cuts, tears, abrasion or signs of heat or chemically-related damage. Verify that the bag securely retains the cylinder and the components of the device.

**6.7 Compressed Air Cylinder**

For maintenance instructions of the cylinder, see Compressed Air Cylinder manual.

**6.8 Quick-Fill Adapter (if Applicable)**

For maintenance instructions of the Quick-Fill Adapter see Quick-Fill System manual.

## 7 Packing

The bag has to be packed correctly according to the following instructions to ensure correct use in an emergency situation.

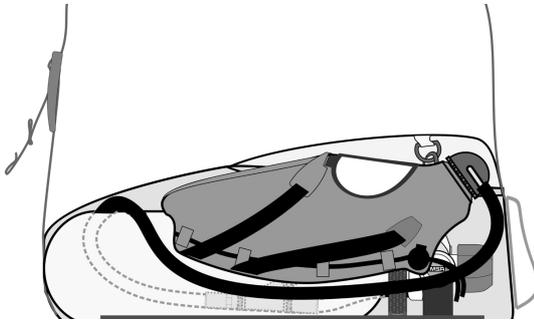


Fig. 4 Packed bag

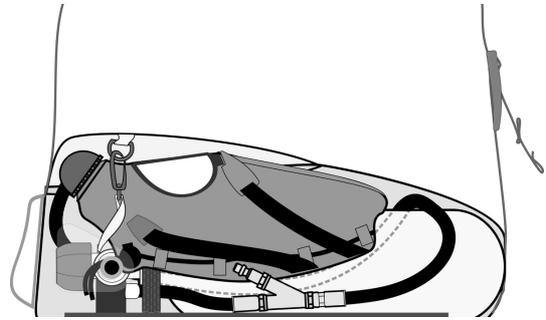
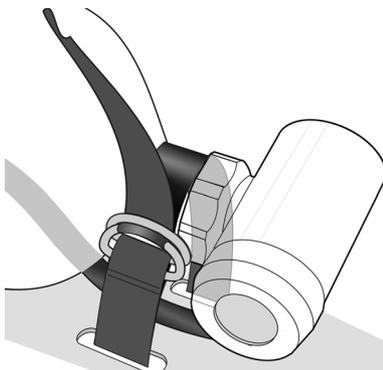


Fig. 5 Packed bag, correct Y-piece position



### WARNING

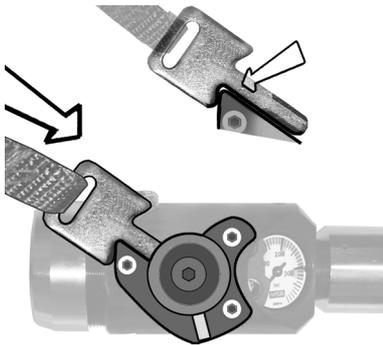
To ensure proper functioning and a quick activation in an emergency, pack the device as described and do not transport or store anything besides the device in the bag.



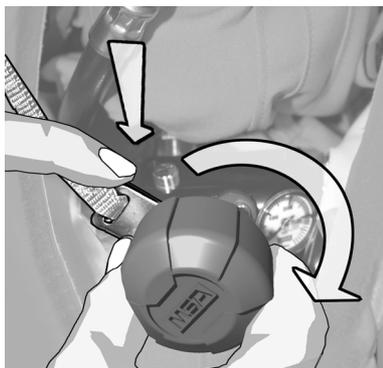
- (1) Insert the cylinder into the bag onto the base plate.
  - ▷ The CVA has to face the opening side.
- (2) Adjust the medium pressure hose on filling port side.
- (3) Close cylinder fixation as shown.
- (4) Push filling port through side opening in the bag.



- (5) Open handwheel on CVA completely (anticlockwise).



- (6) Insert starter key into the CVA key slot.  
 ▷ Align key as shown.



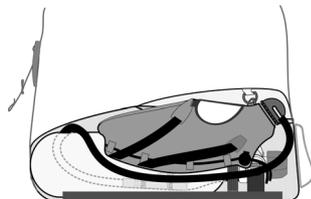
- (7) Close handwheel completely (clockwise) while holding the starter key in place.  
 ▷ The key must stay in place after closing the hand-wheel.

- (8) Put mask-hood/full face mask into carrying bag:

**Mask-Hood version**



- Fold the mask-hood according to the Mask-Hood manual.



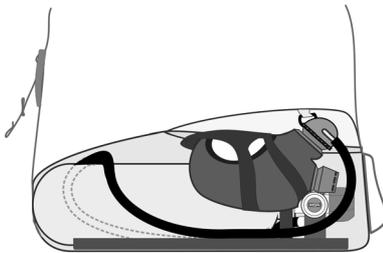
- Put the mask-hood with the LGDV pointing towards the bag opening into the carrying bag.

Full Face Mask version



- Fold harness over lens.

- Check proper connection of medium pressure lines.
- Slide hose into bag.
- Slide LGDV with full face mask into bag, with the lens pointing upwards and the LGDV pointing towards the bag opening. Take care not to kink medium pressure hose or face blank.



- (9) Check that the LGDV is switched off

 <b>WARNING</b>
An open LGDV leads to loss of air when donning the escape device in an emergency situation.

GB



- (10) Connect the starter key and bag flap

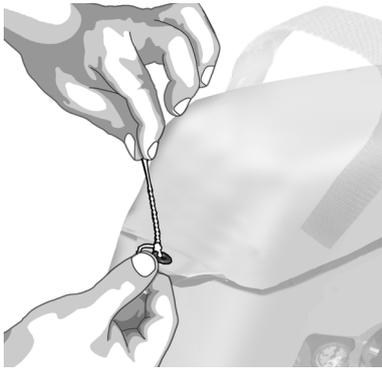
- (11) Fill the cylinder.

- (12) Close bag.
- ▷ Ensure that the starter key is properly connected to the bag flap.
  - ▷ Ensure proper fixing of velcro fastener.



**WARNING**

To ensure proper functioning and a quick activation in an emergency, pack the device as described and do not transport or store anything besides the device in the bag.



- (13) Fit the anti-taper tag through the openings in lid and bag.
- (14) Fully extend the neck strap and waist belt (if applicable).

## 8 Storage

Store in a dry place, free from dust and dirt, at a storage temperature between -15 °C and +25 °C. Protect device against direct sunlight. Do not store the device or spare cylinder and valve assemblies within or near an area where the respirator can or might be exposed to any substances that will attack any part of the device, causing the device NOT to perform as designed and approved. For additional storage information, see the manuals for the parts of the device.

### Mask-Hood or Full Face Mask

MSA rubber products are protected by an anti-ageing agent that can become visible as a light coating. This coating is harmless and can be removed.

You can ensure a long life of rubber goods according to ISO 2230 by storing them in a cool, dry place protected from ultraviolet radiation.

### Compressed Air Cylinder

For additional storage information, see Compressed Air Cylinder manual.

## 9 Technical Data

<b>Operating Data</b>	
Operating pressure	200/300 bar
Warning signal activation pressure (if applicable)	30 bar ± 5 bar
Working pressure range (medium pressure)	4,0 to 8,5 bar
Permissible operating temperature	-40 °C to +60 °C
Storage temperature range	-15 °C to +25 °C
<b>Weight</b>	
Weight ready for use (approx.)	
PremAire Escape 2l steel charged, full face mask	6,5 kg
PremAire Escape 2l steel charged, mask-hood	6,7 kg
PremAire Escape 2l comp. charged, full face mask	4,5 kg
PremAire Escape 2l comp. charged, mask-hood	4,7 kg
PremAire Escape 3l comp. charged, full face mask	5,8 kg
Quick-Fill adapter	175 g
<b>Service Limitations</b>	
Nominal duration time according to EN 402	see table in chapter 1.1
Service life of composite cylinder	15 years (see label)

## 10 Certification

<b>Approvals</b>	The compressed air breathing apparatus conforms to the Directives 89/686/EEC and 94/9/EG. It is a unit with compressed air in accordance with EN 402 and ISO 23269-1.
	0158 DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum, Germany
	I M2 II 2G IIA T6 -40 °C ≤ Ta ≤ +60 °C II 3G IIB T6 -40 °C ≤ Ta ≤ +60 °C II 1D

## 11 Ordering Information

Description	Part No.
PremAire Escape, with PremAire Mask-Hood, 2 l composite cylinder (empty)	10151746
PremAire Escape, with 3S full face mask, 2 l steel cylinder (empty)	10152573
PremAire Escape, with 3S full face mask, 2 l composite cylinder (empty)	10152574
Waist belt (pack of 5)	10158933-SP
PremAire Mask-Hood	10142939
Full face mask 3S-PS-IH	10152371
AutoMaXX-ASE, PremAire Escape (spare)	10147639-SP
AutoMaXX ASE-Y	10159835-SP
AutoMaXX ASE-Y-FF	10159835-SP
AutoMaXX-ASE Handwheel (spare)	10032070
Bag, PremAire Escape (complete)	10150321-SP
Basin (for PremAire Escape Bag) (pack of 4)	10129114-SP
Quick guide, Bag - PremAire Escape	10152757-SP
Lanyard keychain for CVA (pack of 5)	10155917-SP
Anti tamper tie (pack of 5)	10018457
Anti tamper tie (pack of 25)	10023512
PremAire Quick-Fill Connector	10127956-SP
Quick-Fill hose, 1 meter	D4075929
Quick-Fill cylinder adapter	D4075971

For local MSA contacts, please visit us at **[MSAafety.com](https://www.MSAafety.com)**