LALIZAS

ESCAPE-15

Emergency Escape Breathing Device

Approved to MED Directive by DVL GL

IT CONFORMS TO 2014/90/EU MED DIRECTIVE

INSTRUCTIONS FOR USE & MAINTENANCE

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APPLICATION/LIMITATION
The ESCAPE-15 is to be used only for ESCAPE from a compartment that has a hazardous atmosphere. It should not be used for fighting fires, entering oxygen deficient voids, tanks, diving or to be worn for a complete shift.

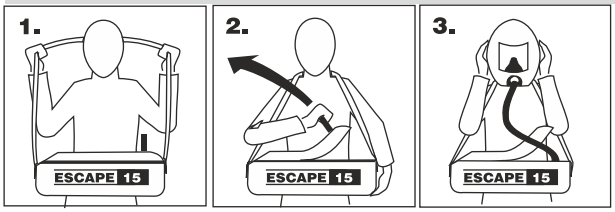
SHORT DESCRIPTION
The ESCAPE-15 is an EEBD (Emergency Escape Breathing Device) consisted of: i) an Air cylinder ii) a Regulator reducer iii) a Pressure gauge iv) a Pressure hose v) a Carrying bag. vi) a Hood-orinasal mask
Opening the lid of the bag, a locking clip is released and the valve pressure reducer is activated. The device starts supplying a constant breathing air flow through the hose into the hood.

PREPARATION FOR USE
Important: The equipment as supplied by Lalizas is ready for immediate use.
Check the pressure gauge : Ensure that the needle indicates about 200 bar pressure.
Important: temperature of the environment affects the pressure indication. The cylinders are being filled at ambient temperature (about 20°C) to 200 bars. If the EEBD is stored in a ship at 0°C the pressure needle will indicate about 185bars. If the EEBD is stored in a ship to 40°C the pressure needle will indicate about 215bars. The quantity of air (and the time duration) is the same in all cases.

CHECKS PRIOR TO USE
1. Check the pressure gauge: ensure that the needle indicates the correct pressure as described above.
2. Check if the anti-tamper tag on lid of the bag is intact.

USE & FITTING
1. Place the neck strap of the carrying bag overhead and adjust strap until equipment sits in center of chest (figure 1).
2. Pull upwards the 'pull strap'; on the lid of the bag, so that the air supply into the hood begins. You will have from now on 15 minutes of steady air supply (fig. 2).
3. Immediately remove the hood from the bag. Grip both sides of the base of the hood with the hands inside the neck seal. Lift the hood above the head, stretch the neck seal and put the hood over the head locating the half mask over the nose and mouth. Breathe normally and leave the hazardous environment as soon as possible (figure 3).

Important:
1. Spectacles wearers should stretch neck seal over spectacles. Hood can worn easier if when stretching the neck seal, simultaneously the wearer pushes away the mask by using his fingers.
2. After use: Do not drop or throw down equipment. Pass the equipment to an authorized service station.
3. Do not remove equipment until in safe area. You can see the end of rated duration on the dial of pressure gauge.



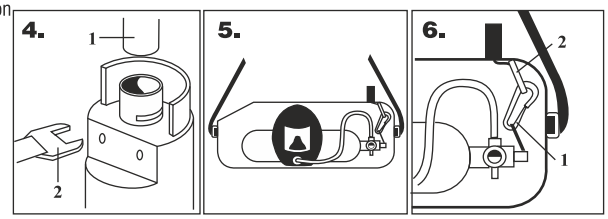
END OF RATED DURATION
The air supply of the ESCAPE-15 will last for 15 minutes from the opening of the lid of the bag (and not from time of putting on the hood). The end of rated duration is at 10bar cylinder pressure easily visible from the pressure gauge window on the carrying bag.
ACTION TO BE TAKEN AT THE END OF THE RATED DURATION At the end of rated duration remove the hood and take off the equipment
TRANSPORTATION Before transportation, tightly pack the EEBD in a strong box. Handle the box with care.

Spare Parts

Code 01611 Anti-tamper tags	Code 01614 Hood and Pipe for EEBD
Code 01616 Bag for EEBD	Code 01623 Wall Bracket for EEBD

MAINTENANCE / SERVICE INSTRUCTIONS
Perform the following routine maintenance after the use of the equipment:
- Clean carefully, disinfect and thoroughly dry dirty components after use.
- Pass the equipment to the authorized service station for a complete service. ***Read next for more details***

Cleaning, Disinfecting, Drying (A)
- Refer to manufacturers usage instructions when using cleaning and disinfecting agents. Attention must be paid to concentration and reaction times. Do not use organic solvents, such as Acetone, Alcohol, White Spirit, Trichloroethylene or similar.
- Do not immerse the hood assembly or the valve in the cleaning or disinfecting solutions.
- Use clean cloth, moistened in clearing or disinfecting solution to remove dirt and contaminants from valve/pressure reducer and hood assembly.
- Remove disinfecting residue with clean cloth moistened with clean water, followed by drying.
- When using baths to contain cleaning and disinfecting solutions the immersed components and assemblies must be agitated manually.
- Do not use any form of mechanical, electrical or ultrasonic agitation. Lalizas Hellas recommends the following procedure:
1. Cleaning, without exceeding a temperature of 30°C. Rinse off cleaning solution in clean water before disinfecting.
2. Disinfecting, without exceeding a temperature of 30°C.
3. Rinsing and drying: Remove cleaning and disinfecting solutions by rinsing in clean water, followed by drying. When drying do not exceed a temperature of 60°C.



ACTIONS	SERVICE INTERVALS	AFTER USE	EVERY MONTH	EVERY 4 MONTHS	EVERY 1 YEARS	EVERY 2 YEARS	EVERY 5 YEARS
Complete Equipment	Clean and Disinfect as necessary (See A)	X					
	Visual Inspection (See B)	X		X			
	Charge cylinder to correct pressure (See C)	X					
	Function Test (See E)			X			
	Check Manufacturing Date on the cylinder	X		X			
	Check Gauge Needle	X	X	X			
Authorized Service Station	Annual Service				X		
	Air Replacement					X	
	Hydraulic Test (See D)						X

Service ©
Charging
1. Air quality should conform to EN12021. Before charging the cylinder make sure that:
- It conforms to national standards
- It features original test date and test mark of manufacturer.
- The test date of the next Hydraulic test has not been exceeded **(D)**. The hydraulic test should be conducted every five years after the manufacturing date of the cylinder.

Steps for charging
1. With a plastic probe (mark 1 of figure 4) press plunger on the top of the reducing valve and insert locking clip (mark 2).
2. Unscrew protection plastic plug G5/8 from the charging port of reducer and then connect a G5/8 hand wheel of charging hose.
3. Set the filling pressure of the compressor at 200bar to charge the cylinder.
Important *: charging can induce an increase in temperature resulting in an incomplete charge.*
4. At ambient the gauge needle should indicate about 200 bar pressure. If required 'Boost' Charge.
5. When cylinder is fully charged vent pressure from charging hose. Following venting remove charging hose from charging port then refit protection plastic plug.

Visual inspection (B)
Check good condition of:
- Hood and neck seal
- Valve/reducer, hose and Connections
- Bag, straps and buckles.

In the end
1. Repack unit into bag (figure 4)
2. Set the equipment in 'ready for use ' condition by connecting clip (mark 1 of figure 6) to the D Ring (mark 2 of figure 6) . Be careful not to detach the locking clip from the valve. Finally close the lid . Equipment is now ready for use.

INSPECTION INTERVALS
It is important to comply with the following test and service intervals and with National Regulations, Laws and Standards regarding the use of such equipment in the country of use.
This instruction also applies to non-used, in storage equipment.

Daily check
1. Check cylinder fully charged- gauge needle indicates about 200 bar pressure.
2. Check that anti-tamper tag is impact.
3. Unit available for use.

FUNCTION TEST (E)
The purpose of this test is to confirm the proper operation of the device. If from the test, doubts regarding the proper operation of the device are arisen, then contact a service station. The test should last only a few seconds, so that no valuable air will be spent. If you have doubts about your ability to test the eebd quickly, you are advised to practice it close to a service station so that you can recharge the device if needed.
Test procedure: Remove the cylinder from the bag. Pull the locking pin (mark 2 of figure 4). Hear the noise of the supplied air and feel with your hand the airflow inside the hood. If there is a normal airflow, stop the operation by pressing the plunger on the top of the reducing valve with a plastic probe (mark 1 of figure 4). Insert the locking pin (figure 4). Place the cylinder back in the bag.

STORAGE
- The equipment when stored should be suitably protected from the environment
- When it is stored in wall cabinets ensure the visibility of cylinder contents gauge for daily check.

SHELF LIFE 10 YEARS FROM CYLINDER MANUFACTURING DATE.

Warning:
Duration begins from time of activation of the air supply and not from time of putting on the hood.
Time required to allow the wearer to escape to a safe area must be within specified capacity of the equipment. When selecting type and duration of escape equipment is essential to consider potential hazards, storage location and escape routes.
Although the exposed parts of the EEBD have been chosen so as not to give rise to frictional sparks on impact, the apparatus should not be used in explosive atmospheres.

IMPORTANT
- Before the use of this equipment training of the wearer and reading of these Instructions for use are necessary.
- Use and maintain this equipment as specified in this leaflet and in conformity with the National Regulations, Laws and Standards of the country of use.
- Only trained competent personnel should inspect and service equipment at regular intervals and a record should be kept of such inspections and service.
- Service should be carried out only by Lalizas Hellas authorized service stations (Contact Lalizas Hellas for details).
- Notify Lalizas Hellas for any fault or failure.

Liability statement
Responsibility for reliable function of equipment transfers to the owner or operator when serviced or repaired by untrained personnel, not authorized by Lalizas Hellas, or when used in a manner not conforming to its intended use.