

S C B A



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A、 Type: RHZK6-1

B、 Standard

SOLAS 1974, as amended; EN 137: 2006; NFPA 1981:2003;
GB/16556-2007; GA124:2013

C、 Technical parameter

- Gas Cylinder:
 - Capacity: 6L;
 - Material: Alloy steel;
 - Working pressure: 0~30Mpa
- Pressure Regulator:
 - Maximum outflow: 450L/min;
 - Output pressure: 0.7 ± 0.05 MPa
- Alarm System:
 - Alarm pressure: 5.5 ± 0.5 Mpa;
 - Sound level: 95db;
 - Flashing rate: 60 times/min
- Respiratory resistance: < 980 pa
- Service time: > 30 min
- Safety valve opening pressure: Open in 1~1.2Mpa
- Package size (Plastic suitcase): 728*440*300mm
- Weight: 16kg



D、 Approved: CCS EC MED SOLAS



E、 Introduction

1. Full facemask

The full-face mask is a positive-pressure mask that adopts a single-eye window and a double-layer annular seal, and has the characteristics of wide vision and good transparency. The main frame of the face mask is made of silicone rubber material and has a small mouth nasal mask which is attached to the nose and mouth. It can enhance the full-face mask effective breathing space and reduce respiratory resistance. The face mask is made of polycarbonate, which is always clear, bright and fog-free during use. The head cover is connected with the fast clip with the tightening belt, and the tightening belt can be tightened to make the face mask double seal ring close to the wearer's face so as to ensure the safety of the user's breathing.



2. Demand valve

This demand valve is a plug-in type positive pressure demand valve. The air supply flow is greater than 300L/minute. Simply insert the mask during use and take a deep breath to open the demand valve for air. Operation method: Place the demand valve inlet. Insert the mask directly, and hear a "beep" sound, indicating a smooth insertion. Take a deep breath and the demand valve will automatically open the air.



The bypass valve is a method for the use of an emergency valve designed on the demand valve: when the demand valve fails, the bypass valve button is directly pressed, and the demand valve can supply the mask directly to the air for the operator to evacuate and use.

3. Self-locking cylinder valve

Air cylinder valve is an important part of the cylinder switch gas source. Its structure is a female threaded bottle valve. The thread is divided into two types: imperial G5/8 and metric M18*1.5. They are matched with the external thread reducer. The cylinder valve of the internal thread structure is equipped with a high-pressure safety diaphragm. When the gas pressure in the cylinder exceeds 38MPa-45MPa, the safety diaphragm will burst and the gas will be rapidly relieved.



4. Pressure reducing valve

The pressure reducing valve is a device that depressurizes the high-pressure gas to a constant output pressure of 0.8 ± 0.2 MPa and supplies the gas to the demand valve. The pressure relief valve is mounted on the backrest and is linked to the cylinder valve by the connection nut hand-wheel. The gas source output is divided into two parts: high pressure and low pressure. The high-pressure gas source gas is sent to the high pressure meter and residual gas alarm through the high pressure tube. After decompression, the low-pressure gas source is sent to the demand valve through the medium pressure tube, and the low pressure end is provided with a safety valve in the crucible cavity. Pressure relief valve and medium pressure tube, high pressure tube connection are plug-in type, the tube can rotate freely.



5. Backplate

The role of backplate is to support the fixed cylinder and pressure reducer. The weight on the backplate is evenly distributed on the shoulders by the straps. The strap consists of a shoulder strap and a waistband. Both can be quickly adjusted in length so that the backrest rests on the back and buttocks of the human body. The gas cylinder is fixed on the backrest by a quick fixing device, and the diameter of the cylinder can be adjusted to fix the length of the cylinder.



6. Air cylinder

The gas cylinder is a high-pressure vessel for storing compressed air for human respiratory use. The rated storage pressure is 30 MPa.

The raw material is aluminium alloy 6061. Strict implementation of GB11640 standard manufacturing or other international common standards, such as EN, DOT, ISO, etc.

Features: light weight, high strength, corrosion resistance, long service life.



7. Medium pressure tube

The medium pressure tube is an air output flexible conduit composed of a rubber tube and a quick connector. One end is connected to a demand valve, and the other end is connected to a pressure reducer. The connection method is a card-type connection, which can be quickly loaded and unloaded, and can also be freely rotated in the same plane.



8. High pressure tube

The high-pressure tube is a pressure-resistant rubber tube, and it is responsible for delivering the high-pressure gas source to the high pressure meter and the residual gas alarm system. The combination of a high-voltage gauge and a residual alarm can both indicate the air supply pressure of the cylinder and give an audible alarm when the cylinder reaches the design approval pressure.



9. Alarm whistle

High pressure tube design combined with front alarm system, when the pressure in the bottle is less than $5\pm 0.5\text{MPa}$, it will automatically alarm, the alarm decibel is not less than 90db, and the alarm can be heard clearly in relatively noisy environment.



10. Mechanical pressure gauge

The combination of a high-voltage gauge and a residual alarm can both indicate the air supply pressure of the cylinder and give an audible alarm when the cylinder reaches the design approval pressure. The gauge range is 0-40MPa, the working pressure of the cylinder is 27-30MPa and the alarm pressure 5-6MPa is marked with green and red areas, respectively. When the pressure of the cylinder drops to $5\pm 0.5\text{MPa}$, the residual gas alarm will emit a continuous sound of 90dB to remind the user that the gas source will be used up and it is necessary to evacuate the site as soon as possible. For a cylinder with a volume of more than 5L, the gas source for the cylinder can be used by the wearer for 5-8 minutes.





11. Fast connector

- Imported stainless steel, no rust, corrosion resistance, no deformation resistance
- Fast locking, convenient loading and unloading
- Strong air tightness
- Use safety

G. Maintenance

- Clean the set thoroughly;
- The full face mask should be cleaned with mild neutral detergent and disinfectant lotion, then thoroughly rinsed with clean water and dried naturally. Do not soak the mask in alcohol disinfectants for a long period of time and do not use steam for disinfection. Check that the fastenings are in good order;
 - The surface of the components such as backplate, cylinder valve, pressure reducer, high pressure gauge, alarm and so on can be cleaned without plush soft cloth or gauze;
 - Inspect the complete set for damage and any loose fittings;
 - After use, the gas cylinder is wiped clean with soft cloth, and labelled it is the identification of empty bottle, so that it can be inflated in time. Fit a fully charged cylinder;
 - Complete high pressure and low pressure tests disinfect the facemask;
 - Re-stow the equipment in a ready-to-use condition and complete all use and test records;
 - The maintenance of SCBA in full dry after the correct position into the packing box, stored in the air fresh, away from the heat source, without direct sunlight in the environment. It is forbidden to store in damp environment for a long time to prevent mildew;
 - All equipment must be inspected at regular intervals, the inspection cycle is not more than one month, and always after use in practice or in an emergency. It should never be stowed when wet or dirty.