

## Approvals

The saver CF Series of compressed air constant flow respiratory protection escape equipment conform to EN 1146, ISO 23269-1:2008 and meet the requirements of EC Council Directive PPE (89/686/EEC), PED (97/23/EC) and MED (96/98/EC).

PPE - EC Type examiner: DEKRA EXAM GmbH, Dinnendahlstrasse 9, 44809 Bochum, Germany. Notified Body No. 0158.

PPE (89/686/EEC) - 11B examiner LROA (0088)  
MED (96/98/EC) / PED (97/23/EC) LRV (0038)

The year of manufacture of product is shown on the carrying bag in the form of two digits (09 = made in 2009).

## For Your Safety


- ◆ Use and maintenance of this equipment requires knowledge and compliance with National Regulations, Laws and Standards governing the use of respiratory equipment in the country of use.
- ◆ Use of this equipment requires wearer training and observance of these Instructions for Use.
- ◆ Use equipment for purpose specified in this manual, or as confirmed in writing by Dräger.
- ◆ Only trained competent personnel should inspect and service equipment at regular intervals and a record kept of such inspections and service.
- ◆ Only trained and competent personnel should carry out the charging of the compressed air cylinders.
- ◆ Dräger recommends a Service Contract be obtained from your Dräger Branch or Agent.
- ◆ Contact Dräger for details of Service Contracts and Service Training Courses.
- ◆ Notify Dräger if there is component fault or failure.
- ◆ Use only original Dräger Spare Parts for service and maintenance.
- ◆ Use only Dräger Test Equipment for service and maintenance.

## Description and Intended Use

The saver CF Series of equipment are compressed air constant flow respiratory protection escape units that are available in 10 minute or 15 minute nominal duration versions.

The equipment is contained in a chest mounted carrying bag and supported on the wearer by an adjustable neck strap. On opening the lid of the carrying bag a locking clip is released resulting in the activation of the valve/pressure reducer. The reducer maintains a regulated medium pressure, and a preset nozzle provides a constant flow of breathing air through a connecting hose to the front port of the hood, then into the hood. At 10bar cylinder pressure a whistle warning unit emits an audible signal indicating end of the rated duration.

The saver CF Series of equipment provides the wearer with respiratory protection when escaping from contaminated or oxygen deficient life threatening environments.

The product version marked with the  symbol is recommended where the product is stored in, or regularly exposed to, atmospheres where airborne hydrocarbons or chemical, fuel or oil vapours may be present.

**Safety 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 it is essential to consider potential hazards, storage location and escape routes.

**Safety Warning:** The SAVER CF Series of equipment is not approved for use in explosive atmospheres.

Details of equipment variants available from Dräger on request.

## Technical Data

The saver CF Series is designed in accordance with the technical standards EN1146: 2005 and ISO 23269-1:2008.

Operating temperature range -15°C to 60°C.

## Charging Connection

G5/8 connection as per DIN 477: Part 6

## Compressed Air Cylinders

2L capacity cylinder available in aluminium.  
3L capacity cylinder available in steel.

Cylinders supplied by Dräger are charged at an ambient temperature of 15°C and to the nominal cylinder pressure – i.e. gauge needle inside the 'green' segment of the gauge face.

**Important Note:** The 3L variant (steel cylinder) exceeds 5kg. This is considered to be unsuitable (as defined in EN1146) to be carried by the wearer for 8 hours or more.

Full Technical Specification of the equipment is available from Dräger

## Preparation for use

**Important Safety Note:** When removed from its packaging the equipment as supplied by Dräger is not configured for immediate use. To prepare the equipment for operational use the following procedure must be carried out.

Immediately following removal of the equipment from its packaging:

- ◆ Grip the loop on the lid of the carrying bag and pull up to open the bag.
- ◆ Connect the clip of the valve/reducer locking clip strap to the 'D' ring on the lid of the bag. Take care not to detach the locking clip from the valve.
- ◆ Check contents gauge - ensuring the cylinder is fully charged, e.g. 200bar. Gauge needle inside the 'green' segment of the gauge face.
- ◆ Finally close the lid and fit the anti-tamper tag.

Equipment is now available for emergency use.

## Pre Operational Checks

- ◆ Check contents gauge - ensuring the cylinder is fully charged, e.g. 200bar. Gauge needle inside the 'green' segment of the gauge face.
- ◆ Check anti-tamper tag on lid of bag is intact.

## Use

### Putting on Equipment

- ◆ Refer to Fig. 1. Place the neck strap of the carrying bag over the head and adjust the strap until the equipment sits in the centre of the chest.
- ◆ If fitted with an optional waistbelt – loop the waistbelt around the waist and fasten the buckle. Pull the free end of strap, tightening the waistbelt until equipment is secure and comfortable.

### IN AN EMERGENCY:

- ◆ Refer to Fig. 2. Grip the loop on the lid of the carrying bag and pull firmly upward to 'break' the anti-tamper tag, open the flap of the bag which then releases the locking clip from the valve - turning 'On' the air supply to the hood.
- ◆ Refer to Fig. 3. Immediately remove the hood from the carrying bag.

**Safety Warning:** Duration of the equipment begins from the time of valve activation of the air supply and not from the time of putting on the hood.

- ◆ Refer to Fig. 4. Grip both sides of the base of the hood with the thumbs inside the neckseal. Lift the hood above the head, stretch the neckseal then pull the hood over the head locating the half mask over the nose and mouth. Breathe normally and immediately leave the hazardous area by short and safest escape route.

**Important Note:** Spectacle wearers should stretch the neck seal over the spectacles.

## After Use

**Safety Warning:** Do Not remove the equipment until in safe area and clear of hazard. A whistle warning unit sounds at the end of the rated duration.

- ◆ When in a safe environment remove the hood then take off the equipment.

**Note:** Do Not drop or throw down equipment. Damage could occur.

- ◆ Pass equipment to Service Department.

## Routine Maintenance

To be performed after use of the equipment. See also Testing Equipment and Test Intervals.

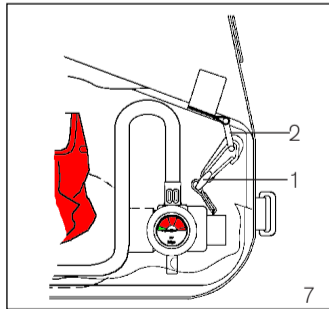
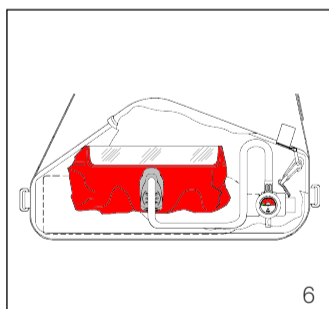
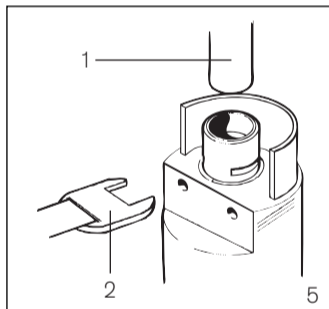
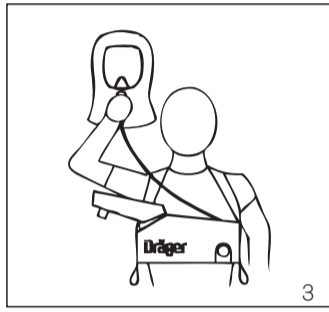
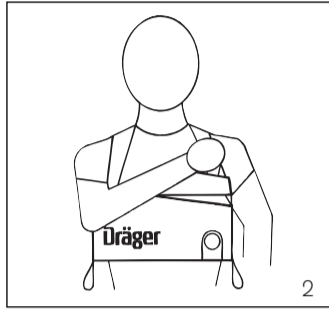
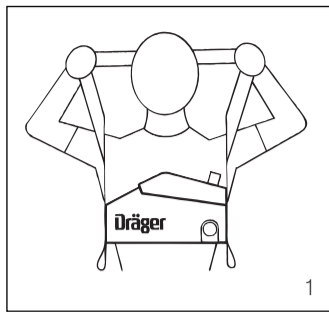
## Cleaning, Disinfecting, Drying

As required carefully clean, disinfect and thoroughly dry contaminated dirty components after use.

When using baths to contain cleaning and disinfecting solutions, immersed components and assemblies must be agitated manually.

Dräger recommends that no form of mechanical, electrical or ultrasonic agitation be used.

Do Not immerse the hood assembly or the valve in cleaning or disinfecting solutions.



**Safety Note:** Refer to manufacturers' usage instructions when using cleaning and disinfecting agents. It is important that attention be paid to concentration and reaction times. Do Not use organic solvents, such as Acetone, Alcohol, White Spirit, Trichloroethylene or similar.

- ◆ Use a clean cloth, moistened in cleaning or disinfecting solution to remove dirt and contaminants from the valve/pressure reducer and the hood assembly.
- ◆ Remove disinfecting fluid with a clean cloth moistened with clean water, followed by drying.

Dräger recommends the following:

### 1. Cleaning:

- ◆ Safety Wash
- ◆ Sekusept
- Do Not exceed a temperature of 30 degrees Celsius

**Note:** Rinse off cleaning solution in clean water before disinfecting.

### 2. Disinfecting

- ◆ Wipex Cloths
- ◆ Incidur
- Do Not exceed a temperature of 30 degrees Celsius.

Details of cleaning and disinfecting agents are available from Dräger on request.

### 3. Rinsing and Drying

Remove cleaning and disinfecting solutions by rinsing in clean running water, followed by drying. When drying components Do Not exceed a temperature of 60 degrees Celsius.

## Charging Procedure

### Air Quality

**Safety Note:** Air quality for compressed air breathing systems should conform to requirements of EN12021. Only charge compressed air cylinders which:

- ◆ Conform to National Standards.
- ◆ Feature original manufacturers test date and test mark.
- ◆ Have not exceeded test date stamped on cylinder by last testing station.

Refer to 'For Your Safety'

Damaged cylinders must not be used.

- ◆ Recharge to pressure stamped on neck, or shoulder of cylinder.
- ◆ Refer to Fig. 5. Using plastic probe (1), press the plunger in the end of the reducing valve and insert the locking clip (2).

- ◆ Unscrew the protection blank from the G5/8 charging port of the reducer then connect the G5/8 handwheel of the charging hose.
- ◆ Charge to correct pressure - e.g. 200bar. Gauge needle inside the 'green' segment of the gauge face.

**Note:** Charging can induce an increase in temperature resulting in an incomplete charge. Dräger recommend a charging rate of 27bar/minute.

It is recommended that a pressure limiting device is fitted to the charging compressor to prevent over charging of the selected cylinder.

- ◆ At ambient temperature the gauge needle should be inside the 'green' segment of the gauge face. If required 'Boost' charge.
- ◆ When the cylinder is fully charged, vent pressure from charging hose. Following venting, remove the charging hose from the charging port then refit the protection blank.

## Visual Inspection

Check integrity of:

- Bag, straps and buckles.
- Valve/reducer, hose and connections.
- Hood and neck seal.
- Damaged cylinders must not be used.

- ◆ Repack the unit into bag as shown in Fig. 6.
- ◆ Refer to Fig. 7. Connect the clip (1) to the 'D' ring (2) taking care not to detach the locking clip from the valve. Finally close the lid and fit anti-tamper tag. The equipment is now available for use.

## Testing and Test Intervals

In addition to work outlined in Routine Maintenance it is important to comply with the following test and service intervals and with National Regulations, Laws and Standards governing the use of respiratory equipment in the country of use.

This instruction also applies to non-used, in storage equipment. Refer also to the appropriate Service Manual. Contact Dräger for details of Service Training Courses or Service Contracts.

## Maintenance and Test Intervals

Description	After Use	Every Month	Every Year
Complete Equipment	Clean and Disinfect as necessary	○	
	Visual Inspection	○	
	Charge cylinder to correct pressure	○	
	Function Test as per Manufacturer's Instructions		○
Cylinder	Check test date on cylinder		◆
	Re-certification - Pressure Test According to National Standards		

○ Dräger Recommendation

**Note:** Additional tests may be required in line with National Regulations. Contact Dräger for details of Service Contracts and Service Training Courses. Refer to For Your Safety.

## Accessories

Description	Order Code
1 Litre Safety Wash and Dispenser	3380164
1 Litre Safety Wash Refill	3380165
5 Litre Safety Wash and Dispenser	3380166
5 Litre Safety Wash Refill	3380167
Sekusept (4 bottles @ 2 litres)	7904071
Wipex Cloths (Pack of 50)	3380375
Incidur Disinfectant (6 litres)	7904072
Incidur Disinfectant (30 litres)	7904073
Anti-Tamper Tags (Pack of 5)	3350388
Waistbelt	3350396

