



# Oxygen Self Rescuer

## SSR 30/100 and SSR 30/100 B

### *Safe Oxygen Supply for Various Applications*

The oxygen self-rescuers SSR 30/100 and SSR 30/100 B are small, robust respiratory protective devices for self-rescue, which can be used at every place where the ambient atmosphere may be oxygen deficient or contain toxic contaminants. These devices employ the well-known and world-wide proven principle of generating oxygen chemically.

Due to its compact design and low weight, the oxygen self-rescuer can be worn continuously on the belt (SSR 30/100) or on the chest (SSR 30/100 B), so that it is available immediately in an emergency situation.

It is donned in seconds and supplies oxygen to the wearer on his escape or while waiting for rescue.

The SSR 30/100 B is made for areas with the potential of abrupt eruptions of toxic gases or oxygen deficiency, requiring immediate breathing protection and fastest possible starting of the self-rescuer.

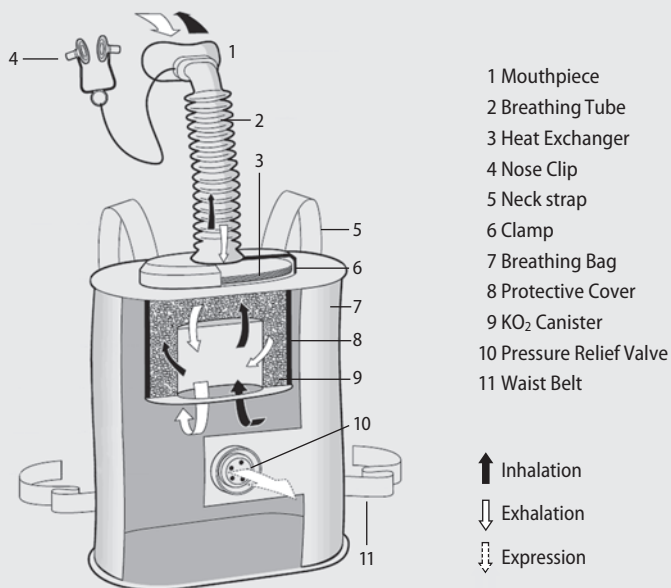
## Design and Functioning

Both SSR 30/100 versions are housed in a stainless steel case which protects the self-rescuer very well under the rough conditions which such devices usually undergo that are carried along continuously. The case is air tight and under seal. In case of an emergency it can be opened simply and quickly.

The schematic shows the design and the air flow. The canister contains the chemical  $KO_2$  which reacts with the exhalation air. The humidity and carbon dioxide of the exhalation air cause a chemical reaction of the  $KO_2$ , whereby carbon dioxide is retained and oxygen is released into the breathing bag. The service time of the apparatus depends on the user's work rate, respectively, breathing rate. Under heavy load and resultant high breathing rate more oxygen is generated than under slow and shallow breathing as, for instance, while waiting for rescue.

Both SSR 30/100 versions have no pressurised components and are almost maintenance free. For used but complete and undamaged apparatus MSA offers economic reconditioning. Donning the apparatus and breathing can be practised with the SSR 30/100 TR training device.

### Schematic Design and Air Flow



SSR 30/100

## Features and Benefits

- Small, light but robust device
- Stainless steel container
- Carried on belt or on chest
- Long service life
- Oxygen supply according to demand
- Simple handling
- Largely maintenance free
- Long storage life
- Simple reconditioning



SSR 30/100 B

## Technical Data

### Apparatus in case

Dimensions	height 18 cm / width 18 cm / depth 10 cm
Weight	2 kg (2.1 kg SSR 30/100B)
Carrying mode	on belt (SSR 30/100) or on chest with harness (SSR 30/100 B)
Storage life	depending on storage conditions, refer to instructions for use for details

### Apparatus without case

Weight	1.3 kg (1.6 kg SSR 30/100B)
Carrying mode	in front of chest with neckstrap and waist belt (SSR 30/100) or in front of chest in lower part of container (SSR 30/100 B)
Principle of operation	regeneration of breathable air through $KO_2$
Flow principle	pendulum breathing (see schematic)
Duration	20 min at 35 l/min (Class K20S according EN 13794) 30 min at 30 l/min (escape) 100 min at 10 l/min (at rest)
Temperature class	T3

## Approval and Certification

From DMT-Gesellschaft für Forschung und Prüfung mbH, in accordance to EN 13794  
SSR 30/100: 582 A/95/33 PSA · SSR 30/100 B: 584 A/95/115 PSA

## Ordering Information

D1123701	Oxygen Self-Rescuer SSR 30/100
D1123958	Belt for SSR 30/100
D1123711	Training Apparatus SSR 30/100 TR
D1123705	Oxygen Self-Rescuer SSR 30/100 B (less carrying harness)
D1123940	Carrying Harness for SSR 30/100 B
D1123712	Training Apparatus SSR 30/100 B TR
D1118845	Tightness Tester for Apparatus in Case
D1118322	Module SSR 30/100 and SSR 30/100 B for Tightness Tester

## Your direct contact

### MSA EUROPE Regional Head Offices & Great Britain

**Northern Europe**  
MSA Nederland B.V., Hoorn  
Phone +31 (0)229 25 03 03  
E-Mail info@msaned.nl

**Central Europe**  
MSA AUER GmbH, Berlin  
Phone +49 (0)30 68 86-0  
E-Mail info@msa-auer.de

**Eastern Europe**  
MSA Safety Sp. z o.o., Warsaw  
Phone +48 (0)22 711-50 33  
E-Mail mee@msa-europe.com

**Southern Europe**  
MSA GALLET, Châtillon sur Chalaronne  
Phone +33 (0)474 55 01 55  
E-Mail message@msa-gallet.fr

**International Sales**  
MSA EUROPE, Berlin  
Phone +49 (0)30 68 86-555  
E-Mail contact@msa-europe.com

**Great Britain**  
MSA (Britain) Limited, Bellshill  
Phone +44 (0)16 98 57 33 57  
E-Mail info@msabritain.co.uk