

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Emergency Escape Breathing Device (EEBD)

with type designation(s)
Dräger Saver CF(10), Saver CF(15) and Saver CF(15)CC

Issued to

Draeger Safety UK Limited
Blyth, Northumberland, United Kingdom

is found to comply with

DNV GL rules for classification – Ships
DNV GL rules for classification – High speed and light craft
DNV GL offshore standards

Application :

Approved for use as Emergency Escape Breathing Device.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Hamburg** on **2020-02-24**

This Certificate is valid until **2025-02-23**.

DNV GL local station: **Manchester**

for **DNV GL**

Approval Engineer: **John Alan Walton**

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Jörg Kallies
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

The Saver CF(10), Saver CF(15) and Saver CF(15)CC is a self-contained, open-circuit emergency escape breathing apparatus with a hood for escape from hazardous environments.

It features automatic operation and constant air flow and can be equipped with cylinders which can provide either a 10 or 15 minute supply of air. The device is carried hands-free.

Main components of the apparatus:

- Carrying system with soft bag or hard case
- Air cylinder and valve assembly:
 - 2 litre aluminium for Saver CF(10) for a nominal duration of 10 minutes
 - 3 litre steel for Saver CF(15) or 3 litre carbon composite for Saver CF(15)CC for a nominal duration of 15 minutes
- Hood assembly with hose

All parts are of flame resistant materials.

For further information please see the listed documentation under Type Approval documentation.

Application/Limitation

Approved as an emergency escape breathing device in accordance with SOLAS II-2 Reg.13.3.4 and FSS Code Ch.3.2.2. to provide personnel breathing protection during escape from a compartment that has a hazardous atmosphere. Not to be used for fighting fires or when entering oxygen deficient tanks or voids, or worn by fire-fighters.

- Air cylinders and valves to be designed and manufactured in accordance with a national standard
- The compressed air shall comply with EN 12021
- The weight of the Saver CF(15) with 3l steel cylinder exceeds 5 kg, which is not considered suitable according EN 1146:2005 Para.6.6 for carrying on the man for at least 8 hrs.

Each product shall be delivered with its manual for use and maintenance. Where the reliable performance of the breathing device or parts thereof are dependent of special attention due to ageing, use, cleaning or disinfection, storage conditions, service, replacement of parts etc., this shall be clearly stated there.

Type Approval documentation

Test reports issued by DEKRA EXAM GmbH in Essen, Germany:

- 6679A/09 dated 2009-06-10,
- 7627A/12 dated 2012-07-09,
- 7627.1/12 dated 2012-07-09,
- 8673.1 A/16 dated 2016-04-05,
- 9161.1A/17 dated 2017-07-12,
- 9169.2/17 dated 2017-07-12
- 9278/18PSA Rev.1 dated 2018-03-26
- 9795.4/19 PSA, dated 2019-10-31
- 9795.3/19 PSA dated 2019-10-31

Tests carried out

Tested according to ISO 23269-1:2008 and EN 1146:2005

Marking of product

Job Id: **262.1-033075-1**
Certificate No: **TAF00001D2**

The product is to be marked according to IMO FSS Code Ch.3.2.2.4, ISO 23269-1:2008 Para.9 and EN 1146:2005 Para.8 and with name and address of manufacturer and type designation. The pressure vessel marking shall include the charging pressure, capacity and stamp of the authorized inspection body.

In addition each EEBD should be marked with "FOR ESCAPE ONLY".

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Standard for Certification No. 1.2 Type Approval item 4.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnvgl.com>