Certificate No:
TAF00001JM

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Emergency Escape Breathing Device (EEBD)

with type designation(s)
Saver PP(10) and Saver PP(15)

Issued to
Draeger Safety UK Limited
Blyth, Northumberland, United Kingdom

is found to comply with
DNV GL rules for classification – Ships
DNV GL offshore standards
DNV GL rules for classification – High speed and light craft

Application :

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

Issued at **Hamburg** on **2021-05-07**
This Certificate is valid until **2026-05-06**.
DNV local station: **Manchester**

Approval Engineer: **Michael Oberländer**

for **DNV**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

The Saver PP(10) and Saver PP(15) is an open-circuit compressed air breathing apparatus with full mask for escape from hazardous environments. It features automatic operation and can be equipped with cylinders which can provide either a 10 or 15 minute supply of air. The device is carried hands-free.
The Saver PP additionally features an optional integrated air hose for connection to external mid-pressure air suppliers for protection in prolonged escape situations.

Main components of the apparatus:

- Carrying system with soft bag or hard case
- Air cylinder and valve assembly:
  2 litre aluminium for Saver PP(10) for a nominal duration of 10 minutes
  3 litre steel or carbon-composite for Saver PP(15) for a nominal duration of 15 minutes
- Pneumatic assembly consisting of reducer, hose and lung demand valve
- Facemask assembly: Dräger Panorama Nova full face mask

All parts are of flame resistant materials.
For further information please see the listed documentation under Type Examination 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 Dräger PP(15) exceeds 5 kg, which is not considered suitable according EN 402:2003 Para.6.6 for carrying by the wearer for a complete shift (e.g. 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 Examination documentation

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

- 6678A/09 dated 2009-06-10,
- 6938/10 dated 2010-06-28,
- 7946/13 dated 2013-11-28,
- 8673.1 A/16 dated 2016-04-05,
- 8673.2/16 dated 2016-04-05,
- 8780.2/16 Rev.1 dated 2016-09-26

Tests carried out

Tested according to ISO 23269-1:2008 and EN 402:2003.

Marking of product

The product is to be marked according to IMO FSS Code Ch.3.2.2.4, ISO 23269-1:2008 Para.9 and EN 402:2003 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'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 Class Programme DNVGL-CP-0338, Section 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