

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Self-contained compressed-air-operated breathing apparatus for entry and work in gasfilled space

with type designation(s)

Dräger PAS Lite Series, PSS 3000 Series and PSS 4000 Series

Issued to

**Draeger Safety UK Limited
Blyth, Northumberland, United Kingdom**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2019/1397,**

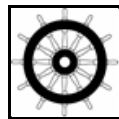
item No. MED/7.1 SOLAS 74 as amended, Regulation II-2/10, II-2/15, IMO Res. MSC.98(73)-FSS Code) 3, IMO MSC.1/Circ.1499.

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-10-13.**

Issued at **Hamburg** on **2019-10-14**

DNV GL local station:
Newcastle-upon-Tyne



for **DNV GL SE**

Approval Engineer:
Michael Oberländer

Notified Body
No.: **0098**

Gerhard Aulbert
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

The Dräger PAS Lite Series, PSS 3000 Series and PSS 4000 Series are self-contained breathing apparatus (SCBA) that use an open-circuit breathing system, comprised of a single high pressure air cylinder, a carrying system including shoulder straps and waist belt, lung demand valve and face mask. The user will be alerted by a mechanical and also if fitted, an electronic signal and warning unit, before the volume of the air in the cylinder has been reduced to less than 200 l.

For details of the configuration see Type Examination documentation below.

Application/Limitation

Approved for use as self-contained compressed air breathing apparatus of fire-fighter's outfit in accordance with SOLAS II-2 Reg.10.10.1.2, IBC Code 14.2.2.1 and IBG Code 14.3.2.1.

The SCBA is in compliance with IMO FSS Code Ch.3 Para 2.1.2.1 and 2.1.2.2 as amended by IMO Res. MSC.339(91).

Each SCBA shall be used together with a Dräger lifeline (complying with the requirements of MED/3.44) as part of the fire-fighters outfit according to FSS Code Ch.3.2.1.

The breathing apparatus shall be used with following class 3, full face masks acc. to EN 136:

- Dräger f2/PA-P, f2/PA-PE or f2/PE/ESA series
- Dräger Panorama Nova-P/PE/ESA, positive pressure
- Dräger FPS 7000P or 7000 ESA

All air cylinders provided for the breathing apparatus shall be interchangeable.

Air cylinders and their valves shall comply with appropriate national regulations.

The volume of air contained in the cylinder shall be at least 1200 l.

The compressed air shall comply with EN 12021.

Each product is to be supplied with its manual for installation, maintenance and use.

Type Examination documentation

Test Reports:

- No.7920/14 dated 2014-01-14 (ISO 23269-2:2011 and ISO 23269-3:2011)
- No. 8278.2 A/15 dated 2015-03 – 2015-05 (DIN EN 137:2007-01)
- No. 8278.3/15 dated 2015-05-26 (ISO 23269-2:2011 and ISO 23269-3:2011)
- No. 8754 A/16 dated 2016-08-25 (EN 137: 2006)
- No. 8754.2 A/16 dated 2016-09-08 (ISO 23269-2:2011)
- No. 8754.3 A/16 dated 2016-09-08 (ISO 23269-3:2011)

All from DEKRA EXAM GmbH, Essen, Germany.

Drawings from manufacturer:

- 3355923 Rev.21 EN 137 Matrix Valved Single Cylinder
- Draeger PAS Lite, PSS3000 & 4000 System Configuration Marine Equipment Directive Matrix SE22212
- Technical data sheet for PAS Lite, PSS 3000 and PSS 4000

Tests carried out

Tests according to ISO 23269-2:2011, ISO 23269-3:2011, EN 136:1998 and EN137:2006



Job Id: **344.1-010068-1**
Certificate No: **MEDB000065N**

Marking of product

The product or packing is to be indelibly marked in accordance with ISO 23269-3:2011 Para 9 and with name and address of the manufacturer and type designation.

The pressure vessel marking shall include the charging pressure, capacity and stamp of the authorized inspection body.