

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAF0000185
Revision No:
3

This is to certify:

that the **Compressed-Air Breathing System**

with type designation(s)
Dräger PAS Lite Series, PSS 3000 Series, PSS 4000 Series

issued to

Draeger Safety UK Limited
Blyth, Northumberland, United Kingdom

is found to comply with

DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021
DNV rules for classification – Ships
DNV offshore standards

Application:

Approved for use as self-contained compressed-air-operated breathing apparatus of fire-fighter's outfit.

Approved for entry and work in gasfilled space and for use in accidents involving dangerous goods.

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

Issued at **Høvik** on **2024-09-23**

This Certificate is valid until **2029-09-22**.

for **DNV**

DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Tessa Biever**

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.



Form code: TA 281

Revision: 2023-09

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Page 1 of 2

Product description

'Dräger PAS Lite Series, PSS 3000 Series, 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 Reg. II-2/10.10.1.2, IBC Code Ch.14.2.2.1 and IBG Code Ch.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 FSS Code Ch.3.2.1.3 and ISO 23269-2 Para 4.28.) as part of the fire-fighters outfit according to IMO 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 Approval documentation

Test report No. 7920/14 dated 14 January 2014 from DEKRA EXAM GmbH, Essen, Germany

Test report No. 8278.2 A/15 dated March - May 2015 from DEKRA EXAM GmbH, Essen, Germany

Test report No. 8278.3/15 dated 26 May 2015 from DEKRA EXAM GmbH, Essen, Germany

Test report No. 8754 A/16 dated 25 August 2016 from DEKRA EXAM GmbH, Essen, Germany

Test report No. 8754.2 A/16 dated 08 September 2016 from DEKRA EXAM GmbH, Essen, Germany

Test report No. 8754.3 A/16 dated 08 September 2016 from DEKRA EXAM GmbH, Essen, Germany

Test report No. 10038/21 PSA dated 11 February 2021 from DEKRA EXAM GmbH, Essen, Germany

Test report No. 9598E/19/02 PSA dated 11 February 2021 from DEKRA EXAM GmbH, Essen, Germany

Drawing No. 3355923 Rev.23, EN 137 Matrix Valved Single Cylinder

Drawing No. SE22212-04, PAS Lite, PSS3000&4000 System Configuration MED Matrix S

Drawing No. 3358566-06, PAS Lite Harness

Drawing No. 3358567-04, PSS 3000 Harness

Drawing No. 3358568-04, PSS 3000 Harness – w/o Waist Belt Pad

Drawing No. 11073060-00, Cylinder Cover (Black Nomex) 6.8L 300B

Tests carried out

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

Marking of product

The product or packing is to be indelibly marked in accordance with ISO 23269-2:2011 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.

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 DNV-CP-0338, Section 4.