TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00003DR
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Self-contained compressed-air-operated breathing apparatus

with type designation(s)
71327 - Self-Contained Breathing Apparatus 6L SOLAS, 71328 - Self-Contained Breathing Apparatus 9L SOLAS

Issued to
Lalizas Hellas S.A.
Piraeus, **Greece**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 7,**
item No. UK/3.7. SOLAS 74 as amended, Regulation II-2/10 & X/3, 2000 HSC Code 7, FSS Code 3, IBC Code 11, IGC Code 11 and IMO MSC.1/Circ.1499, IMO MSC.1/Circ.1555.

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

This Certificate is valid until **2027-11-28**.

Issued at **London** on **2023-09-27**

for **DNV UK Ltd.**

DNV local unit:
Piraeus

Approval Engineer:
Roland Priebe

Approved Body No.: **0097**

Christine Mydlak-Röder
MER Service Responsible

Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved 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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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

"**71327 – Self-Contained Breathing Apparatus 6L SOLAS**" and "**71328 – Self-Contained Breathing Apparatus 9L SOLAS**" are self-contained compressed-air-operated breathing apparatus for use by fire fighting.

Maximum working pressure: 300 bar.

The principal components are as follows:
- Full-face mask (Material Code 02253)
- Pressure regulator with gauge and whistle (Material Code 02255) acc. to IMO Res. MSC.339(91) in conjunction with IMO MSC.1/Circ.1499
- Pressure and air flow regulator (Material Code 02256)
- Carrier and harness (Material Code 02254)
- Compressed air cylinder, 6L of steel (Material Code 02257) for product No. 71327
- Compressed air cylinder, 9L of carbon fibre composite with aluminium liner (Material Code02258) for product No. 71328
- Compressed air cylinder valve (Material Code 02260)
- Storage case.

For further details, see the documents listed under Type Examination documentation below.

Application/Limitation

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

The air cylinders shall be designed in accordance with national regulations.

The volume of air contained in the air cylinders shall be at least 1200 litre.

The apparatus is not for use in accidents with cargoes.

All air cylinders for breathing apparatus shall be interchangeable.

Each SCBA shall be used together with an approved lifeline (complying with the requirements of MED/3.44 and ISO 23269-2 Para 4.28.) as part of the fire-fighters outfit according to FSS Code Ch.3.2.1.3. This lifeline to be capable of being attached by means of a snap-hook to the harness of the apparatus or to a separate belt in order to prevent the breathing apparatus becoming detached when the lifeline is operated.

The complete apparatus shall undergo practical performance tests under realistic conditions to check for imperfections.

A set of manufacturer's instructions shall accompany every unit and should be kept onboard. Manufacturer's instructions for application / limitations, checks prior to use, donning and fitting, use, cleaning and disinfection, maintenance, transport and storage shall be adhered to.

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

Type Examination documentation

Test report No. 2012102 dated 2012-09-24 from Wuhan Testing Center of Marine Lifesaving Appliances, China.
Test report No. 2012079 dated 2012-09-24 from Wuhan Testing Center of Marine Lifesaving Appliances, China.
Test report No. 2012080 dated 2012-09-24 from Wuhan Testing Center of Marine Lifesaving Appliances, China.
Test report No. 2020104 dated 2020-09-25 from Wuhan Testing Center of Marine Lifesaving Appliances, China.
Test report No. 2020105 dated 2020-09-25 from Wuhan Testing Center of Marine Lifesaving Appliances, China.

Service Manual 2nd edition, page 1 of 9 from June 2013 from manufacturer.

Tests carried out

Tested according to EN 137 (2006) and EN 136 (1998) including AC (1999) and AC (2003), ISO 23269-2:2011.

Marking of product

The product is to be marked in accordance with and ISO 23269-2 §9 and with the UK Mark of Conformity (see first page).

The compressed air cylinder markings shall include the charging pressure, capacity and the stamp of the authorized inspection body.