

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB000063E
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)
YIBEI 6 and YIBEI 6.8

Issued to

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 **2026-03-23**.

Issued at **London** on **2023-07-20**

DNV local unit:
Shanghai



for **DNV UK Ltd.**

Approval Engineer:
Tessa Biever

Approved Body No.: **0097**

Christine Mydlak-Roeder
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

'YIBEI 6 and YIBEI 6.8',
are self-contained compressed-air-operated breathing apparatus (SCBA) with a single compressed air cylinder for shipboard fire-fighters (maritime use only).

Principle components:

- a) Full face, positive pressure mask in accordance with EN136 by manufacturer.
- b) Air supply valve
- c) Cylinder valve and pressure regulator
- d) Pressure gauge and alarm whistle acc. to IMO Res. MSC.339(91), in conjunction with IMO MSC.1/Circ.1499
- e) Back-plate and harness
- f) Compressed air cylinder:
 - YIBEI 6: seamless steel cylinder manufactured by Nanjing Banqiao Fire Fighting Equipment Co., Ltd. with volume 6 L/300 bar (max. air volume 1800 l).
 - YIBEI 6.8: cylinder consisting of high-strength aluminium alloy liner, fully wrapped with carbon fibre composite material, manufactured by Zhejiang Kibo Pressure Vessel Co., Ltd. with volume 6.8 L/300 bar (max. air volume 2040 L).

Application/Limitation

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

All air cylinders for breathing apparatus shall be interchangeable.

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

Maximum working pressure: 300 bar

The air supply shall meet the requirements for breathable air according to EN 132.

The SCBA shall be used in conjunction with a fire-proof lifeline which is certified in accordance with UK/3.44.

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.

Type Examination documentation

Test report No. 2019068 dated 2019-07-25 from CCS Wuhan Testing Center of Marine Life-saving Appliances, China.
Test report No. 2019069 dated 2019-07-25 from CCS Wuhan Testing Center of Marine Life-saving Appliances, China.
Test report No. 2019068 Annex dated 2019-11-27 from CCS Wuhan Testing Center of Marine Life-saving Appliances, China.

Technical drawing: General arrangement SCBA dated 2020-01-13 from manufacturer.

Tests carried out

Tested according to ISO 23269-2:2011.

Marking of product

The product is to be indelibly marked in accordance with ISO 23269-2:2011, 9 and with name and address of manufacturer, type designation and the UK Mark of Conformity (see first page).

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