



TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB000057T
Revision No:
1

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 Line-throwing appliances

with type designation(s)
Pneumatic Line Thrower Rescue 230

Issued to
Restech Norway AS
Bodø, Norway

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 7**,
item No. UK/1.11. SOLAS 74 as amended, Regulation III/4, III/18, III/34 & X/3, LSA Code, 2000 HSC Code 8 and IMO MSC.1/Circ.1633.

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

This Certificate is valid until **2028-11-12**.

Issued at **London** on **2023-11-13**

DNV local unit:
East & South Norway CMC



for **DNV UK Ltd.**

Approval Engineer:
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Approved Body No.: **0097**

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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

"Pneumatic Line Thrower Rescue 230"

is a line throwing appliance which launching system is based on compressed air as driving force with minimum shooting range of 230 m. The base unit is a firing unit with built-in cylinder for compressed air up to 300 bars. The projectiles are made of ABS plastic with aluminium inner tube and filled with 240 m nylon line of 3.2 mm thick. The breaking strength of the nylon line is not less than 2000 N. The projectiles are reloadable and reusable.

Application/Limitation

Approved for use as Line-throwing appliances onboard ships.

The air cylinder shall be pressurized to minimum 200 bars, maximum 300 bars.

The air cylinder shall be checked periodically according to user manual and have a hydrostatic test performed every 5 years from date of manufacture as written on the Declaration of Conformity for the launcher.

The line has not an expiration date as long as it is stored in a dry place without direct sunlight.

To conform to the requirements of the paragraph 7.1.1 of IMO Resolution MSC.48(66), one Line-throwing Appliance is constituted by 4 units.

The unit shall be stored in a dry and safe place when not in use.

The design assessment is based on IMO Res. MSC.48(66), as amended by IMO Res. MSC.207(81) and IMO Res. MSC.218(82).

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2, Ch.4.

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

Type Examination documentation

Test report No. STF23 A95014, dated 06 March 1995 from SINTEF Unimed, Trondheim, Norway.

Drawing No. R230ENG Rev. A dated 04 February 2014 from Restech Norway AS.

Drawing No. 10-00 Rev. G dated 3 February 2021 from Restech Norway AS.

Drawing No. 12-00 Rev. A dated 15 August 1995 from Restech Norway AS.

User and maintenance manual, version 19 April 2023 from manufacturer.

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) Part 1, as amended by IMO Res. MSC.200(80) and IMO Res. MSC.226(82) and ISO15736.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, date of manufacture, date of expiry, operational restrictions and UK Mark of Conformity (see first page).

The product should be provided with brief instructions or diagrams clearly illustrating the use printed on the casing.