



# TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MERB000057T**  
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 Line-throwing appliances (pyrotechnics)**

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 and 2000 HSC Code 8**

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

This Certificate is valid until **2024-04-03.**

Issued at **London** on **2023-04-17**

DNV local unit:  
**Sandefjord**

Approval Engineer:  
**Tessa Biever**



Approved Body No.: **0097**

for **DNV UK Ltd.**

**Christine Mydlak-Röder**  
**MER Service Responsible**



**Maritime &  
Coastguard  
Agency**

UK Approved Body Authorised  
by the MCA

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. The product liability rests with the manufacturer or his representative in accordance with the Merchant Shipping (Marine Equipment) Regulations 2016.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV UK Ltd. of any changes to the approved equipment. 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. This certificate remains valid unless suspended, withdrawn, re-called, or cancelled.

**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 system based on compressed air as driving force and with minimum shooting range of 230 m.

Base unit: Firing unit with built-in cylinder for compressed air up to 300 bars.

Projectiles: Made of ABS plastic with aluminium inner tube. Filled with 240 m nylon line 3.2 mm thick and of breaking strength not less than 2000 N. Projectiles are reloadable and reusable.

## Application/Limitation

Approved for use as Line-throwing appliances onboard ships.

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.

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.

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

## Type Examination documentation

Test report No. STF23 A95014 dated 6 March 1995 from Sintef Unimed, Trondheim, Norway.

Drawing No. R230ENG Rev. A dated 4 February 2014 from Restech Norway AS

Drawing No. 10-00 Rev. E dated 29 June 2011 from Restech Norway AS

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

## 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).

## 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 Mark of Conformity (see first page).

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