

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

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 **(EU) 2018/773**,

item No. MED/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**.

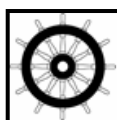
Issued at **Høvik** on **2019-04-04**

DNV GL local station:

Sandefjord

Approval Engineer:

Jasna Jovovic-Lainis



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

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.



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).

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 1995-03-06 from Sintef Unimed, Trondheim, Norway.

Drawing No. R230ENG rev. A, dated 14-02-04, No. 10-00 rev. E, dated 11-06-29 and No. 12-00 rev. A, dated 95-08-15 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, Mark of Conformity and USCG number if applicable (see first page).

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