

Certificate No:

**MED-B-9174**

Item No:

**A.1/1.11**

Job Id:

**344.1-001913-9**

## EC TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2012/32/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL under the authority of the Government of the Kingdom 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:

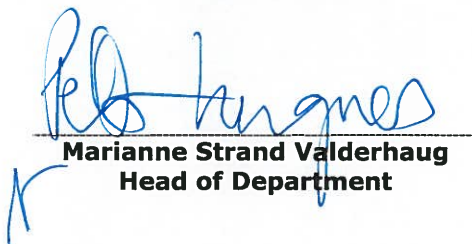
**Annex A.1, item No. A.1/1.11 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/18, III/34 & X/3, LSA Code and 2000 HSC Code 8**

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

**Høvik, 2014-06-09**  
for **DNV GL AS**



This Certificate is valid until  
**2019-06-09**

  
**Marianne Strand Valderhaug**  
Head of Department

Notified Body No.: **0575**

DNV GL local office:  
**Bodø**



  
**Patrick Aubert**  
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

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## 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.

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 A/S.

## Tests carried out

Tested according to a test programme based on IMO Res. MSC.81(70).

## Marking of product

The product or packing is to be marked with name of manufacturer, type designation, MED Mark of Conformity and USCG approval number if applicable (see below).

## Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

## USCG Approval

An 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.