



TYPE APPROVAL CERTIFICATE

Certificate No:
TALB000001D
Revision No:
2

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

SOLAS 74 as amended, LSA Code as amended. IMO Resolution MSC.81(70) as amended
TP14475E Ed.1 (2010-03) Canadian life saving appliance standard

Application :

Approved for use as Line-Throwing Appliance onboard ships.

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2021-11-15**

for **DNV**

This Certificate is valid until **2026-11-14**.

DNV local station: **Bodø**

Approval Engineer: **Tessa Biever**

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Helene David-Andersen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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 a minimum shooting range of 230 m. The firing unit has a built-in cylinder for compressed air up to 300 bars. The projectile is made of ABS plastic with aluminium inner tube and filled with a 3.2 mm thick nylon line with a length of 240 m. The line has a breaking strength not less than 2000 N. The projectiles are reloadable and reusable.

Projectile weight: 1.8 kg
Launching unit: 8.8 kg
Fully equipped weight: 11.1 kg

For further details see test reports and drawings listed under Type Approval documentation below.

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) and Canadian Life-Saving Appliance Standard (TP 14475E) Part I, Ch. VII, item 7.1.

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 projectile and launching unit do not have an expiry date.

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 Approval documentation

Certification in accordance with Class Programme DNV-CP-0338, September 2021.

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

Test report No. F23377 dated 17 September 2012 from SINTEF, Trondheim, Norway.

Drawing No. 10-00 Rev. D dated 20 November 2001 from manufacturer

Drawing No. 12-00 Rev. A dated 15 August 1995 from manufacturer.

Tests carried out

Tests are documented in accordance with recommendation on testing of Life-Saving Appliances, IMO Res. MSC.81(70) Part 1 and Canadian Life-Saving Appliance Standard (TP 14475E) Part II, Ch. 9.

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 information as required by LSA Code items 1.1.2.9.

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

All instructions, maintenance and training manuals and markings accompanying the line-throwing appliance shall be in both English and French, as per "Procedures for Approval of Life-Saving Appliances and Fire Safety Systems, Equipment and Products" (TP14612) Ch.2.2.1.3 and as outlined in Canadian Life-saving Appliance Standard (TP 14475E) Ch.15.



Job Id: **262.1-014385-4**
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Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP14612)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in DNV-CP-0338 Section 4.