

TYPE APPROVAL CERTIFICATE

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

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 GL.

Issued at **Høvik** on **2017-03-14**

for **DNV GL**

This Certificate is valid until **2021-12-31**.

DNV GL local station: **Bodø**

Approval Engineer: **Tessa Biever**

Petter Langnes
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.



Job Id: **262.1-014385-3**
Certificate No: **TALB000001D**
Revision No: **1**

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. Ref. drawing 10-00 rev. D.

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. Ref. drawing 12-00 rev. A.

Application/Limitation

The design assessment is based on IMO Res. MSC.48(66).

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2015.

Test reports Nos.: STF23 A95014 dated 6 March 1995 and F23377 dated 17 September 2012, both from SINTEF, Trondheim, Norway.

Drawings Nos.: 10-00 rev. D dated 19 July 1995 and 12-00 rev. A dated 15 August 1995, both from Restech Norway A/S.

Tests carried out

Tested according to IMO Res. MSC.81(70) Part 1 and the requirements given in the Canadian Lifesaving Appliance Standard TP 14475E Ch.9.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation 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" (TP14612E) Ch.2.2.1.3 and as outlined in TP 14475E Ch.15.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV GL'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 DNVGL-CP-0338 Section 4.