

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Float-free arrangements for liferafts (hydrostatic release units)**with type designation(s)
SEAMATE Ve-1

Issued to

T-ISS B.V.
Dinxperlo, Gelderland, Netherlandsis found to comply with
**SOLAS 74 as amended, Regulation III/4, III/13, III/26, III/34 & X/3, LSA Code, IMO
MSC/Circ. 811 and 2000 HSC Code 8****Application :****Approved for use as a hydrostatic release unit in float-free arrangements for liferafts.****The 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 **2019-12-17**for **DNV GL**This Certificate is valid until **2024-12-16**.DNV GL local station: **Netherlands FIS**Approval Engineer: **Tessa Biever****Mårten Schei-Nilsson**
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: **262.1-032391-1**
Certificate No: **TALB000003B**

Product description

"SEAMATE Ve-1",
is an automatic, disposable hydrostatic release unit, designed for inflatable liferafts from 6 to 150 persons and EPIRBs. The unit may be fitted with air activated remote release (Automatic Air Release Unit).

The release depth is from 1.5 m to not more than 4 m.

The production of Seamate Ve-1 is at Sea-Land Guangzhou Risheng Marine Equipment Co. Ltd.

Application/Limitation

Approved for use as a hydrostatic release unit in float-free arrangements for liferafts.

The onboard installation of product shall be carried out according to manufacturer's instruction.

After installation onboard the HRU has to be marked with expire date at which it must to be replaced.

Unit has three-years lifetime and does not need annual service, maintenance or spare parts during that period.

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).

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

Type Examination documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Basis for approval:

Test reports	Date
Performance Test & Submergence and Manual Release Test, witnessed by DNV GL Hiroshima	25 June 2012
Prototype test reports	18/19/25 June 2012
Technical test of membrane from Textile Lab, Netherlands	9 January 2012
Test report on Weaklink Strength and Rope Strength and Performance Test	9 April 2013
Test reports for '3 years lifetime'	March 2017/ November 2018
Drawings	Date
Drawing No. HRU-00100 Rev. A – Assembly drawing	-
Drawing No. HRU-00210 - Automatic air release unit	-

Tests carried out

Test documentation in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70), Part 1, as amended by IMO Res.MSC.226(82) and Canadian Lifesaving Appliance Standard (TP14475E) Ch.11.

Marking of product

The product or packing is to be marked with name and address of manufacturer and type designation.

The markings shall comply with Canadian Lifesaving Appliance Standard (TP14475E), Part II, item 15.1.

All instructions and markings accompanying the HRU, or printed directly on the HRU, 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.



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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 Class Programme DNVGL-CP-0338, Section 4.