

MARINE DIVISION

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Certificate number: 07495/C0 BV

File number : LSA 6337/03

Product code : 6031H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

C M HAMMAR AB

V:a Frölunda - SWEDEN

for the type of product

LIFERAFT LAUNCHING APPLIANCES

HAMMAR Manual Remote Release System (MRRS)

Regulations and standards :

SOLAS 74 Convention, as amended

Regulation III/4, Regulation X/3 Regulation III/13.4.2, III/26.2.2 and III/34 - IMO Resolution MSC.48 (66) - IMO MSC/Circ. 811 - IMO Resolution MSC.97 (73) 8.1 and 8.6 (2000 HSC Code) - IMO Resolution MSC.81(70)

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until : 24 Jan 2013

At Paris la Défense, on : 24 Jan 2008

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV GOTHENBURG

Surveyor : M. Moller

L. COURREGELONGUE



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The HAMMAR Manual Remote Release System (MRRS) is intended to release liferafts from a distance by means of a manually operated vacuum pump. The system needs to be serviced and checked annually and in accordance with the manufacturer's instructions. The Hammar H20 Hydrostatic Remote Release Unit is of a disposable type and does not need to be periodically serviced, but shall need to be replaced every two years. The HAMMAR H20 Hydrostatic Remote Release Unit, which is part of the system, was separately approved by the Society in accordance with the European Council Directive 96/98/EC on Marine Equipment (M.E.D.), as amended.

2. DOCUMENTS AND DRAWINGS :

Drawing	Revision	Date
A001007 Remote Release System	Rev.3	
F3013-03 Hand Pump RRS		

No departure from these drawings is permitted without the prior consent of the Society.

3. TEST REPORTS :

Approval based upon:

- Type tests carried out for type approval of HAMMAR H20 HRU for fitting float-free arrangement of liferaft.
- Further technical assessments made by the Department of Trade as per letter nr MS3/14/0869 dated 11/05/1993 and by the Swedish National Maritime Administration as per letter nr 21.11.9272854 dated 24/02/1993.

4. APPLICATION / LIMITATION:

Materials and/or components:

- HAMMAR H20 Hydrostatic Remote Release Unit.
- Hand pump RRS (part nr HM-0301) as per drawing F3013-03.
- A 3 mm diameter stainless steel tubing (AISI 316) - part nr HM-0311.
- A 1 metre length flexible tubing in black Nylon 6.
- A U-console - part N° HM-0305, to be installed at the liferaft cradle.

Application / Limitation:

- To be used for remote release of inflatable liferafts.
- Since not submitted to the painter strain there is no limitation in respect to the liferaft capacity (the "Rope sling", which is part of the device was strength tested at 15 kN, liferaft for more than 25 persons)
- HAMMAR H20 Hydrostatic Remote Release Unit needs no annual service, maintenance or spare parts, but must be replaced after two years.

On board installation / Maintenance requirements:

- To be installed on board in accordance with requirements of Regulations stated on the front page of this certificate and Manufacturer's instructions
- It shall be provided with a simple system of recording the expiry date (month/year) at which the unit must be replaced
- If marked with more than a single expiry date (month/year), the unit will be invalid and must be replaced.
- To be supplied with installation instructions written in English language.

5. PRODUCTION SURVEY REQUIREMENTS:

To be manufactured, checked for quality and tested in accordance with the protocol approved by Bureau Veritas on the basis of Part 2 of IMO Resolution MSC.81 (70).

6. MARKING OF PRODUCT :

To be permanently marked on the HAMMAR H20 Hydrostatic Remote Release Unit or identification plate securely attached to the unit, as follows:

- HAMMAR MRRS.
- Serial number.
- Expiry date.
- BV (SOLAS) approved.

7. OTHERS :

- This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the MRRS at any time and that CM HAMMAR AB, Sweden will accept the responsibility for informing shipbuilders or their subcontractors of the proper methods of use and general maintenance of the equipment and the conditions of this approval.

- This certificate supersedes Certificate of Type Approval N°07495/B1 BV issued by the Society on 17/09/2003.

***** END OF CERTIFICATE *****