



Marine &amp; Offshore

Certificate number: 24438/B1 BV

File number: LSA 6337/02

Product code: 6032H

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

www.veristar.com

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**C M HAMMAR AB**

V:a Frölunda - SWEDEN

*for the type of product*

**HYDROSTATIC RELEASE UNIT**

Hydrostatic/Electric Remote Release Unit, Type H20 ERUX, for float-free arrangement of EPIRB's

### Requirements:

Chapter 1.2 General requirements for life-saving appliances of the LSA Code

IMO Resolution MSC.48(66) as amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89), MSC.368(93) and MSC.425(98)

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 31 Mar 2022**

**For Bureau Veritas Marine & Offshore,**

At BV GOTHENBURG, on 19 Jun 2018,

Magne MOLLER



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 Marine & Offshore. 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 & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore 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 electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=kwra3szz03>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

The **HAMMAR H20 ERUX ELECTRIC REMOTE RELEASE** (Hydrostatic /Electric Release Unit) is intended to release EPIRB.

It is intended to be used together with an Electronic Remote Release system "*Hammar ERRS*".

The ERRS system is powered by the ship's Emergency Power Supply and by a back-up battery at every Control Panel.

The ERRS system may be activated from one or several remote release positions.

The ERRS system does not affect the hydrostatic function of the HAMMAR H20 ERUX.

It is set for release at a depth not less than 1.5 meters and not greater than 4 meters.

This Type Approval Certificate only covers the hydrostatic function of the HRU version HAMMAR H20-ERU and does not cover the additional ERRS system, although its design was assessed by the Society .

### 2. DOCUMENTS AND DRAWINGS:

- Drawings and specifications:

Document	Issue	Date
CM HAMMAR AB - DRAWING AND SPECIFICATIONS	5	2018-04-17

- Manual(s) for installation use and maintenance.

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

### 3. TEST REPORTS:

Number	Date	Description
31.309.78.212	15/03/1985	Initial type tests
85M51019	28/08/1985 29/08/1985	Type tests on the membranes
21.99-90 34084	24/01/1990	Corrosion tests on the blades
M51400	04/09/1990	Corrosion tests on the blades and HRU
	10/12/1993	Reassessed by the Swedish National Maritime Administration - Maritime Safety Inspectorate
KMyP203085b	2002/08/06	Type tests : Corrosion resistance, Temperature cycling, and release test
KMyP03765c	2002/09/05	Type tests : Corrosion resistance, Temperature cycling, and release test
P801304	2008/03/13	Solar radiation test
8P03320-01	09/04/2018	Corrosion of knife sets

- As per type tests performed on the Plastic bolt

Number	Date	Made by
90M10348	20/03/1991	Tensile strength of the plastic bolt was tested by SP Swedish National Testing and research Institute, Boras, Sweden

### 4. APPLICATION / LIMITATION:

- As per requirements stated on front page of this Certificate.
- It needs no annual service, maintenance or spare parts, but must be replaced after 30 months.
- To be installed on board in accordance with requirements of SOLAS 74 Convention, as amended, 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:**

The "HAMMAR H20 ERUX ELECTRIC REMOTE RELEASE" are to be supplied by C M HAMMAR AB in compliance with the type described in this certificate.

This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

C M HAMMAR AB has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

C M HAMMAR AB has declared to Bureau Veritas the following production site(s):

C M HAMMAR AB  
August Barks Gata 15  
S-42132 V:a Frölunda  
SWEDEN

**6. MARKING OF PRODUCT:**

To be permanently marked on the unit or identification plate securely attached to the unit, as follows:

- HAMMAR H20 ERUX-EPIRB
- Serial number
- Expiry date
- BV
- For EPIRB use only
- The notation: "DO NOT PAINT"

**7. OTHERS:**

It is CM HAMMAR AB responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

This certificate supersedes Type Approval Certificate No 24438/B0 BV issued on 31/03/2017.

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