



Marine &amp; Offshore

Certificate number: 44656/A1 BV

File number: LSA 6337/01

Product code: 6030H

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

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**C M HAMMAR AB**

V:a Frölunda - SWEDEN

*for the type of product*

**HYDROSTATIC RELEASE UNITS FOR LIFERAFTS**

Hammar H20 R & Hammar H20-ERU

### Requirements:

SOLAS 74 Convention as amended, Regulations III/4, X/3, III/13.4.2, III/26.2.2 and III/34

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

IMO MSC/Circ.811

IMO Resolution MSC.97(73) -(2000 HSC Code)- as amended, 8.1 and 8.6

IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89), MSC.378(93) and MSC.427(98)

TP 14612 & TP 14475

*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: 10 Mar 2021**

**For Bureau Veritas Marine & Offshore,**

At BV GOTHENBURG, on 19 Jun 2018,

Magne MOLLER



This certificate is recognized by Transport Canada

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](http://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 SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

This version of the **HAMMAR H20R** Hydrostatic Release Unit is intended for fitting Float-free arrangements for liferafts.

The version **HAMMAR H20-ERU** (Hydrostatic /Electric Release Unit) is intended for use together with an Electronic Remote Release system, designated under trade name "*Hammar ERRS*", i.e. liferafts can be launched from one or more remote positions.

- 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.
- Operational lifetime of a total of 24 months installed onboard

This EC Type Examination Certificate only covers the hydrostatic function of the HRU version **HAMMAR H20**, as per requirements stated on front page of this certificate, and does not cover the additional ERRS system, although its design was assessed by the Society.

- It is not fitted with a manual operation device.
- It does not need to be periodically serviced (It is of "disposable sealed unit" type).
- Set for release at a depth not less than 1.5 metres and not greater than 4 metres.
- It is not part of the painter system (It is not subjected to the painter system strength).
- Its Operational lifetime is set to a total of 24 months installed onboard.

### 2. DOCUMENTS AND DRAWINGS :

- Drawings and specifications:

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

- Markings:

Document	Issue	Date
0001 Top Label Transport Canada	2	2018-02-08
0002 Expiry Label	1	2014-01-15

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

- Manual for installation, use and maintenance (Electronic format)

Document	Issue
HAMMAR H20 Manual HT-0019	10.01

### 3. TEST REPORTS :

As per test report listed in the following document:

#### **Hydrostatic Release Units**

Number	Date	Description
31.309.78.212	01/03/1985	Initial Type Tests
31.309.78.212 Encl.	15/03/1985	Submergence Tests
31.309.78.212 Encl.	01/10/1985	Tests on Membranes
85M51019	28/08/1985	Type tests on the membranes
85M51019 Encl.2	28/08/1985	
85M51019 Encl.4	29/08/1985	
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	06/08/2002	Type tests : Corrosion resistance, Temperature cycling, and release test
N° KMyP03765	05/09/2002	Type tests : Corrosion resistance, Temperature cycling, and release test
P801304	13/03/2008	Solar radiation test
8P03320-01	09/04/2018	Corrosion test of knife sets

#### **Weak Link**

Number	Date	Description
	14/10/2009	Weak link test

**Rope Sling**

Number	Date	Description
96H30094B	05/06/1996	Breaking Load test of rope Sling
KMpI-2013	28/10/2002	Breaking Load test of rope Sling

**ERRS system**

Number	Date	Description
02090P	08/11/2002	Additional tests of the ERRS
P206128 rev.1	24/02/2003	Environmental tests of the ERRS
P206128-1	27/02/2003	Corrosion test of the ERRS

**Transport Canada Marking test**

Number	Date	Description
---	22/02/2016	Rubbing test

**4. APPLICATION / LIMITATION :**

- As per requirements stated on front page of this Certificate.
- Where the weak link is part of the supply, it shall comply with items N° 20, 21 & 22 on drawing N° A0001070 Rev. 1.
- 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)
- The onboard installation and the maintenance of the Hydrostatic Release Unit shall be carried out according to manufacturer's instructions.
- It needs no annual service, maintenance or spare parts, but must be replaced after two years.
- 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.
- In addition of the Electronic version of the "manual for installation, use and maintenance", a paper version of the manual shall be available free of charge for the consumers who request it.

**5. PRODUCTION SURVEY REQUIREMENTS :**

The **HAMMAR H20** Hydrostatic Release Unit are to be supplied by **CM 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.

**CM 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 :

**CM HAMMAR AB**

August Barks Gata 15  
S-42132 V:a Frölunda  
SWEDEN

**6. MARKING OF PRODUCT :**

Instructions, Diagrams, Markings illustrating the use of the Hydrostatic Release Unit shall be printed indelibly (to be both in English and in French);

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

- "HAMMAR H20 R" or "HAMMAR H20 ERU"
- Serial number
- Expiry date
- BV TAC number : 44656/A1 BV
- 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 N° 44656/A0 BV, issued on 10/03/2016 by the Society.

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