



UK Approved Body Authorised
by the MCA

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

Approved Body 8517 - UNITED KINGDOM MARINE EQUIPMENT APPROVAL

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

This is to certify that Bureau Veritas SA UK Branch Office did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.

This certificate is issued to:

C M HAMMAR AB

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

for the type of product

FLOAT-FREE ARRANGEMENTS FOR LIFERAFTS (HYDROSTATIC RELEASE UNITS)

H20 R, Release Depth 1.5-4m

In versions:

H20 R HRU, H20 RX HRU, H20 RL HRU

H20 R ERU, H20 RX ERU, H20 RL ERU

H20 R EBV, H20 RX EBV, H20 RL EBV

Requirements:

SOLAS 74 Convention as amended, Regulations III/4, X/3, III/13, III/26 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), MSC.425(98), MSC.459(101) and MSC.485(103) I, IV

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8

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), MSC.427(98), MSC.472(101) and MSC.488(103)

IMO MSC/Circ.811 and IMO MSC.1/Circ.1630

The attached (schedule of approval) forms part of this certificate.

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

This certificate will expire on: 20 Nov 2029

Issued by Bureau Veritas SA UK Branch Office

(Approved Body 8517)

At BV GOTHENBURG, on 20 Nov 2024,

Hans-erik ERICSSON

This certificate was created electronically and is valid without signature



Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

Note 2: During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

Note 3: "The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body."

Note 4: In case limitations of use apply, these should be indicated in the Annex.

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 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 SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The **Hammar H20 Release Unit** is intended for cutting a rope/cable/tubing after impulse from a hydrostatic pressure to set free a vessel's life rafts or other Life Saving Appliances.

The mechanical principle of operation is a spring-loaded knife is held back by a pin fixed in the centre of a flexible membrane. Release of knife, activation, occurs when the flexible membrane is affected in a perpendicular direction from the spring-loaded knife.

Product Designation	H20 R, Release Depth 1.5-4 m
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Version	In-Service Options		
	H20 R (24 months)	H20 RX (30 months)	H20 RL (36 months)
H20 Hydrostatic Release Unit (HRU) *	H20 R HRU	H20 RX HRU	H20 RL HRU
H20 Hydrostatic/Electric Release Unit (ERU) **	H20 R ERU	H20 RX ERU	H20 RL ERU
H20 HRU with External Breather Valve (EBV) ***	H20 R EBV	H20 RX EBV	H20 RL EBV

* **HRU** have a hydrostatic activation depth of 1.5-4m.

** **ERU** activates on a hydrostatic pressure (at a depth of 1.5-4m) or on an electrical signal from a Control Unit. The electronic system, made by Hammar, set up for remotely activating ERU, is called Electronic Remote Release System (ERRS).

*** **EBV** have a hydrostatic activation depth of 1.5-4m.

This UK Type Examination Certificate only covers the hydrostatic function of the H20, as per requirements stated on the front page of this certificate, and does not cover the additional ERRS system, although its design was addressed by the Society to ensure that this additional feature would not impact the performance of the hydrostatic function of the H20.

The H20 is compatible with requirements in LSA 4.1.6.3:

- With the design of the H20 the force of the payload does not affect the release unit hence the marking (mentioned in LSA 4.1.6.3.6) of "suitable for life rafts with a capacity of more than 25 persons" applies to all H20 R Release Units.

2. DOCUMENTS AND DRAWINGS :

2.1 - Drawings and Specifications

Document	Issue	Date
Drawings and Specifications	12	2023-12-20
H20 for liferafts scheme-A	R1	2023-10-12

2.2 - Markings

Document	Issue
Top Labels H20 R, 1.5-4m Release Depth	0010-01
H20 Expiry Label	0002-02

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

Document	Issue
HAMMAR H20 Manual HT-0019_11.05	11.05

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

3. TEST REPORTS :

As per test report listed in the following document:

3.1 - Hydrostatic Release Units

REF	DESCRIPTION	ID	DATE
1	Test report for Hydrostatic Release Unit (HRU), Sjöfartsinspektionen, IMO A521(13)	31.309.78.212	01/03/1985
1	<i>Submergence test</i>	31-309.78.212 Encl 3	15/03/1985
1	<i>Corrosion resistance test</i>	85M51019 Encl 2	28/08/1985
1	<i>Technical test on membranes</i>	85M51019 Encl 4	29/08/1985
1	<i>Technical test on membranes</i>	31-309.78.212 Encl 5	01/10/1985
2	Corrosion tests on the blades	21.99-90 34084	24/01/1990
3	Corrosion tests on the blades and HRU	M51400	04/09/1990
4	Letter Swedish National Maritime Administration Safety Inspectorate	---	10/12/1993
6	Type tests: Corrosion resistance, temperature cycling, and release test	KMyP203085b	06/08/2002
7	Type tests: Corrosion resistance, temperature cycling, and release test	N KMyP03765	05/09/2002
9	Solar radiation test	P801304	13/03/2008
10	H20 X, Disposable Hydrostatic release unit test	---	22/06/2009
12	H20 RX with external breather valve, Disposable Hydrostatic release unit	---	28/02/2012
13	Corrosion resistance test of knife sets	8P03320-01	09/04/2018
14	Type tests: H20RL Temperature cycling and release test	169GTB19	26/04/2019

3.2 - Weak Link

REF	DESCRIPTION	ID	DATE
1	Test of Weak links	31-309.78.212 Encl12	01/10/1985
11	Weak link test	---	14/10/2009
17	Testing of Weak Links F214946	F214946	05/09/2002
18	Testing of Weak Links (Red)	82369-10	09/05/2023
15	Additional Material test BG30 tensile test	23-0541	09/05/2023

3.3 - Rope Sling

REF	DESCRIPTION	ID	DATE
5	Breaking load test of rope sling	96H30094B	05/06/1996
8	Breaking load test of rope sling	KMp I2013	28/10/2002
14	Strength test of the rope slings fishermans knot (Black)	169GTB19	26/04/2019

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° 4 or 8 on drawing H20 for liferafts scheme-A-R1.
- 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 out according to 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.
- In addition of the electronic version of the "manual for installation, use and maintenance", a paper version of the manual should always be available free of charge for the consumers who request it.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - This certificate alone does not allow the applicant to issue the UK Declaration of Conformity and to affix the mark of conformity (United Kingdom conformity mark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, is to be complied with and controlled by a written inspection agreement with an Approved Body.

5.2 - For information concerning the production phase modules, **CM HAMMAR AB** has declared the following manufacturing site(s):

CM 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"
- Serial number
- Expiry date
- The notation: "DO NOT PAINT"

Reference is made to the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, Part3:

In particular Article 15.3 specifies that the United Kingdom conformity mark shall be followed by the identification number of the Approved Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

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 UK Type-Examination Certificate No 73672/A0 UK, issued on 17/11/2022 by the Society.

*** END OF CERTIFICATE ***