

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Release mechanism for lifeboats and rescue boats (launched by a fall or falls)

with type designation(s)
Csafe 8,5

Issued to

Vanguard (Nantong) F.R.P. Co., Ltd.
Nantong, Jiangsu, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2017/306,**
item No. MED/1.26a. SOLAS 74 as amended, Reg. III/4, III/16, III/34 & X/3, LSA Code and
2000 HSC Code 8

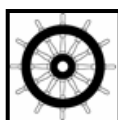
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-04-22.**

Issued at **Høvik** on **2018-04-30**

DNV GL local station:
Nantong

Approval Engineer:
Mats Asvald Innstø



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body



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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

Lifeboat Release Mechanism:

- Safe Working Load, SWL = 85 kN
- Max length of operating cables = 8.2 m
- Hang-off arrangement, SWL = 37 kN

Type/Name of Hydrostatic locking device : Hydrostatic Release Unit

Type/Name of Release handle device : Release Handle Unit

Application/Limitation

- Grades of materials as stated on drawings are to be delivered with makers product certificates (3.1).
- The various components transferring the load like wires, shackles, hooks, etc. are to comply with international standards or codes and are to be delivered with manufacturer's certificate, confirming a safety factor minimum 6 compared to the sustained load.
- Onboard testing (MSC.81(70) part.2) and connection to the hull structure are not included in this examination and shall be accepted by attending surveyor in each case.

Type Examination documentation

Tests carried out

Prototype testing according to IMO Resolution MSC 81(70) as amended including IMO Res. MSC.321(89) carried out 2013-01-04 and witnessed by DNV Nantong. Additional testing carried out 2013-05-02 and witnessed by DNV Nantong.

Marking of product

Marking shall be implemented in accordance with the LSA Code, item 1.2.2.9 and the Directive.

- Type designation, manufacturer name and serial number
- Safe Working Load, SWL

END OF CERTIFICATE