

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 the Kingdom of Norway.

This is to certify:

That the Launching appliances using fall (davits)

with type designation(s)
RDA36

Issued to

RED ROCK MARINE AS
Kristiansand S, Norway

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

Regulation **(EU) 2017/306,**

item No. MED/1.21. SOLAS 74 as amended, Regulation III/4, III/23, III/33, III/34 & X/3, LSA Code and 2000 HSC Code 8

item No. MED/1.41d. SOLAS 74 as amended, Regulation III/4, III/16, III/17, III/23, III/24, III/34, X/3, LSA Code and 2000 HSC Code

Manufacturers authorised representative

RED ROCK MARINE AS
Kristiansand S, Norway

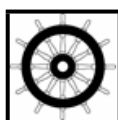
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-12-21.**

Issued at **Høvik** on **2018-01-10**

DNV GL local station:
Kristiansand S

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

Rescueboat Davit delivered in two main versions;

- Davit with docking head: Maximum Working Load, MWL = 3600 kg
- Davit without docking head: Maximum Working Load, MWL = 4000 kg

Additional options are specified in Red Rock Marine AS document "RDA36 w. options" Rev.1. Supporting documentation for options are listed in separate rows below in "Type Examination Documentation".

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 standard or code and are to be delivered with manufacturer's certificate, confirming a safety factor minimum 6 compared to the sustained load.
- Falls to be used with the launching appliance shall be of rotation-resistant and corrosion-resistant steel wire rope.
- Installation, onboard testing (MSC.81(70) part.2), support to the deck structure, and connection to power supply are not included in this examination and shall be accepted by attending surveyor in each case.

Type Examination documentation

<u>Drawing No</u>	<u>Rev.</u>	<u>Title</u>
D085G01	3	General Arrangement
D085A06	3	Main Assembly
RDA36A02	2	Jib
RDA36S02	3	Jib
RAI021	3	Bracket for El-motor/Pump
RDA40A05	1.1	Cylinder Bracket
RDA40S10	4	Cylinder Bracket
D085A03	2	Docking Head
D086A03	3	Docking Head
D086S01	1	Docking Head Bracket
D085S04	1	Docking Head Bracket
D085S02	1	Docking Head Part 1
D085S03	1	Docking Head Part 2
D086S15	4	Docking Head Part 3
D085S15	2	Docking Head Part 3
D085S37	2	Docking Head, Steel Assembly
RAUA01	3	El-Motor Assembly
D085H02	4	Hydraulic Flow Sheet, docking head
D085H01	1.1	Hydraulic Flow Sheet, Shock cylinder
RDA40S09	2	Jib Bracket

RDA40A03	2 Jim Bracket
-	1 Manual RDA36 - Chp 1
-	1 Manual RDA36 - Chp 2 - D085-86
-	1 Manual RDA36 - Chp 3 - D085-86
-	1 Manual RDA36 - Chp 4
-	2 Manual RDA36 - Chp 5
-	3,5 Manual RDA36 - Chp 6
-	1,1 Manual RDA36 - Chp 7
D085S09	1 Thrust Washer, $\varnothing 57 / \varnothing 33$, L=1
RAT001	5 Winch Drum, $\varnothing=323,9$, L=230
RDA40S05	2 Bolt D=50, L=112
RDA40S06	2 Bolt D=70, L=127
D085S12	1 Bolt, D=25, L=51
D085S07	1 Bolt, D=30, L=17
D085S05	1 Bolt, D=40, L=62
D085S06	1 Bolt, D=44, L=134
D085S10	1 Bolt, D=44, L=72
RAE041	4 Bolt, D=65, L=143

Supporting documentation, davit options

D078A02	2 El-motor Assembly
D078H01	0 Hydraulic Flow Sheet C
D078S01	2 Bracket for el-motor/pump
D085A03	2 Docking Head
D085A10	1 Cover For ICE Class
D085A12	1 El-motor Assembly
D085A13	1 Damping Cylinder - Option
D085A14	1 EL Control Conversion Assembly
D085H01	3 Hydraulic Flow Sheet, CT, Shock, Docking Head
D086A02	2 Main Assembly w/docking head
D086A03	3 Docking head
RAI021	3 Bracket for el-motor/pump
RDA36EB3	1 Block Diagram
RDA36EB4	1 Block Diagram
RDA36H04	1 Hydraulic Flow Sheet
RDA36H05	1 Hydraulic Flow Sheet w/docking head
T-G-D004A	1 Material Properties for Ice Class PST -35 (MDT -25)

Tests carried out



Job Id: **344.1-003699-34**
Certificate No: **MEDB00002UY**

Prototype testing for the version without docking head tested according to IMO Resolution MSC 81(70) carried out 2014-10-3/4 and witnessed by DNV GL Romania.

Additional testing for davit including docking head carried out 2017-10-17 and witnessed by DNV GL Poland.

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
- Maximum Working Load, MWL

END OF CERTIFICATE