DNV·GL

Certificate No:
MEDB00000CA

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. 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)
NPT150DYL davit & DW100S/Z winch

Issued to
Jiangyin Neptune Marine Appliance Co., Ltd.
Jiangyin City, China

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/1.21 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/23, III/33, III/34 & X/3, LSA Code and 2000 HSC Code 8
Annex A.1, item No. A.1/1.41a and Annex B, Module B in the Directive. 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
Annex A.1, item No. A.1/1.41d and Annex B, Module B in the Directive. 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

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

Høvik, 2015-11-09
for **DNV GL AS**

This Certificate is valid until
2020-11-04

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Nanjing

Xiao Long Eric Song
Surveyor

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Product description

Gravity type Lifeboat / Rescueboat Davit with;
- Maximum Working Load, MWL = 160 kN

Electrical Lifeboat / Rescueboat Winch with:
- Maximum Working Load, MWL = 100 kN (50 kN for each drum, 3 layers)
- Maximum Hoisting Load, MHL = 100 kN
- Wire rope diameter: 24 mm

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 Approval documentation

Drawing No.	***Rev.***	***Title***
NPT/DW100-01	0	The list of documents for approval
NPT/DW100-03	0	Design calculation sheet
NPT/DW100-04	0	Spare part list
NPT/DW100-05	0	Test program
NPT/DW100-06	0	General arrangement
NPT/DW100-07	0	Speed limit unit
NPT/DW100-07-03	0	Outer friction piece
NPT/DW100-07-04	0	Gear
NPT/DW100-07-06	0	Shell
NPT/DW100-07-08	0	Shaft sleeve
NPT/DW100-07-10	0	Internal friction piece
NPT/DW100-07-15	0	Nut
NPT/DW100-07-16	0	Push rod
NPT/DW100-07-17	0	Counter balance
NPT/DW100-07-18	0	Link
NPT/DW100-07-19	0	Spring
NPT/DW100-07-21	0	Rub block

NPT/DW100-07-22	0	Rub piece
NPT/DW100-08	0	Reduction gear case set
NPT/DW100-08-03A	0	Gear
NPT/DW100-08-03B	0	Gear
NPT/DW100-08-04	0	Flange
NPT/DW100-08-07A	0	Gear shaft
NPT/DW100-08-07B	0	Gear shaft
NPT/DW100-08-07C	0	Gear shaft
NPT/DW100-08-07D	0	Gear shaft
NPT/DW100-08-08A	0	Gear
NPT/DW100-08-08B	0	Gear
NPT/DW100-08-08C	0	Gear
NPT/DW100-08-08D	0	Gear
NPT/DW100-08-10	0	Shaft
NPT/DW100-08-11	0	Gear Shaft
NPT/DW100-08-17	0	Shaft
NPT/DW100-08-18	0	Gear
NPT/DW100-08-19	0	Body case
NPT/DW100-08-20	0	Gear
NPT/DW100-08-25	0	Gear shaft
NPT/DW100-08-28A	0	Gear
NPT/DW100-08-28B	0	Gear
NPT/DW100-08-32	0	Manual shaft
NPT/DW100-08-33	0	Gear shaft
NPT/DW100-08-37	0	Back stop clutch
NPT/DW100-08-37-02	0	Outer ring
NPT/DW100-08-37-03	0	Star Body
NPT/DW100-08-37-08	0	Column
NPT/DW100-09	0	Speed limiting device
NPT/DW100-09-01	0	Shell
NPT/DW100-09-02	0	Shaft sleeve
NPT/DW100-10	1	Drum
NPT/DW100-11	0	Rope plate
NPT/DW100-12	0	Handle unit
NPT/DW100-13	0	Remote control drum
NPT/DW100-14	0	Winch base
NPT150DYL-01	0	Contents of Documents for Approval

NPT150DYL-02	0	Operation/maintenance manual
NPT150DYL-03	0	Calculating instruction of designing
NPT150DYL-04	0	Test Progarm
NPT150DYL-05	1	Physicochemical Properties of material for main parts
NPT150DYL-06-0	0	General Arrangement
NPT150DYL-07-0	0	Head Tackles
NPT150DYL-07-01	0	Seat
NPT150DYL-07-02-01	1	Pulley Body
NPT150DYL-07-04	0	Shaft
NPT150DYL-08-0	0	Floating Tackles
NPT150DYL-08-01-0	0	Seat
NPT150DYL-08-01-01	0	T Type Hook
NPT150DYL-08-02	0	Shaft
NPT150DYL-08-03	0	Slinger
NPT150DYL-09-0	0	Davit Arm
NPT150DYL-09-02	0	Eye Plate(1)
NPT150DYL-09-03	0	Eye Plate(2)
NPT150DYL-09-04	0	Cylinder Seat
NPT150DYL-09-04-01	0	Shaft
NPT150DYL-09-06	0	Channel Plate
NPT150DYL-10-0	0	Boat fall chain
NPT150DYL-10-01	0	Link
NPT150DYL-10-02	0	Chain Ring
NPT150DYL-11-0	0	Guidetackle
NPT150DYL-11-01	0	Seat
NPT150DYL-11-02	0	Shaft
NPT150DYL-12-0	0	Fastening unit
NPT150DYL-13-0	0	Boat support
NPT150DYL-14-0	0	Arm support
NPT150DYL-15-0	0	Cylinder Seat
NPT150DYL-15-01	0	Body
NPT150DYL-15-03	0	Shaft
NPT150DYL-16-0	0	Pivot Unit
NPT150DYL-16-01	0	Shaft
NPT150DYL-16-02	0	Sleeve
NPT150DYL-16-03	0	Bush
NPT150DYL-16-06	0	Seat

NPT150DYL-17	0	Skid
NPT150DYL-18-0	0	Hanging off unit
NPT150DYL-18-01	0	Eye Plate
NPT150DYL-18-02	0	Hanging-off rope
NPT150DYL-19-0	0	Boat Fall & Remote control Unit
NPT150DYL-19-04	0	Boat fall
NPT150DYL-19-06	0	Rod
NPT150DYL-20-0	0	Pump System
NPT150DYL-20-06	0	Pumping Station Seat
NPT150DYL-21	0	Electrical Schematic
NPT150DYL-22	0	Hydraulic Diagram

Tests carried out

Prototype testing accding to IMO MSC 81(70) carried out 2010-09-26, witnessed by DNV Nanjing.

Marking of product

Marking shall be implemented in accordance with the LSA Code, item 1.2.2.9:

- Type designation, manufacturer name and serial number
- Maximum Working Load, MWL

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

END OF CERTIFICATE