

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000004W
Revision No:
2

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 Rigid/inflated rescue boats

with type designation(s)
Narwhal SV-420

Issued to

NARWHAL BOATS, S.L.
Porriño, Pontevedra, Spain

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

Regulation **(EU) 2019/1397,**

**item No. MED/1.43. SOLAS 1974 as amended, Regulation III/4, III/21, III/31, III/34 &X/3
LSA Code, 2000 HSC Code 8, IMO MSC/Circ.1006 and ISO 15372:2000**

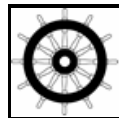
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-07-16.**

Issued at **Høvik** on **2020-07-17**

DNV GL local station:
NB/CMC Team West

Approval Engineer:
Tessa Bieber



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



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Product description

NARWHAL SV-420 is a rigid/inflatable rescue boat equipped with lifting sling.

Length over all, hull, max:	4.20 m
Draught:	1.00 m
Beam overall, including fenders, Bmax:	2.07 m
Weight of boat, fully equipped:	421 kg
Weight of boat, fully manned (82.5 kg/person):	916 kg

Lifting equipment:	4 polyester slings
Hull material:	GRP/Polyurethane foam

Propulsion system:	Outboard engine
Engine manufacturer and type:	Yamaha 25 hp and 40 hp

Bollard pull (Yamaha 25 hp, propeller (3 x 9 7/8 x 10 1/2F)):	1.8 kN
Bollard pull (Yamaha 40 hp, propeller (3 x 11 1/8 x 13)):	2.2 kN
Bollard pull (Yamaha 40 hp, propeller (3 x 11 5/8 x 11)):	2.6 kN
Bollard pull (Yamaha 40 hp, propeller (3 x 11 3/4 x 10)):	3.0 kN

Application/Limitation

Approved engine power:	18.4 - 29.4 kW
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Number of persons, max:	6
Maximum load of persons 82.5 kg:	495 kg
Approved colour:	Orange

Rescue boat equipment and marking/instructions to be inspected after installation onboard the ship. Equipment shall comply with LSA Code and IMO Res. MSC.81(70).

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81), IMO Res. MSC.218(82), IMO Res. MSC.272(85) and IMO Res. MSC.320(89).

Production and installation testing shall be carried out according to IMO Res. MSC. 81(70), Part 2.

Type Examination documentation

Basis for approval:

NARWHAL SV - 400 Rescue Boat, Certification tests Report	
Prototype tests carried out witnessed by Spanish Maritime Authorities	Feb. 1989 and Oct. 1990
Drawing No. 385-182-2-A "Bote de Rescate SV-400, Cotas y detalles de construccion"	
Drawing No. 2389-2005-AQ-BAR-ENAC "DETALLE FIJACIÓN ASIENTOS SV-400C"	2006-06-23
Drawing No. 2389-2005-AQ-BAR-ENAC "POSICIÓN DE LOS PASAJEROS Y HERIDO EN SV 400-C"	2006-06-23
Reports from prototype tests ref. MSC Circ. 980, witnessed by DNV	2006-03-31 and 2006-06
Reports from prototype tests ref. MSC Circ. 980, witnessed by DNV	Nov. 2008
Drawing Towing and hoisting arrangement	2014-03-21
Drawing Towing and hoisting arrangement 2	2014-03-21
Calculations sling arrangement SV-420	2014-03-21
Structural analysis of hoisting points to laminate, ISONAVAL Naval	2014-03-21

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architecture office- surveyors, Barcelona, Spain

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70), Part 1 as amended by IMO Res. MSC.226(82), IMO Res. MSC.274(85), IMO Res. MSC.321(89), IMO Res. MSC.323(89), IMO MSC/Circ. 1006 and ISO 15372:2000.

Marking of product

The product is to be indelibly marked with name and address of manufacturer, boat model and serial number, month and year of manufacturer, number of persons approved for and operational restrictions, if any, according to LSA code item 4.4.1.2 and the mark of conformity (see page 1).

List of rescue boat equipment to be posted in the boat.