

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, 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 Fast rescue boats: rigid**with type designation(s)
MP 741 Springer

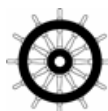
Issued to

Nils S. Hansen Mek. Verksted AS
HARØY, Norway

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

Annex A.1, item No. A.1/1.20b and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation III/4, III/26, III/34, LSA Code and IMO MSC/Circ. 1016 & 1094

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

This Certificate is valid until **2021-06-05**.Issued at **Høvik** on **2016-06-06**DNV GL local station:
ÅlesundApproval Engineer:
Helge BjørnaråNotified Body
No.: **0575**for **DNV GL AS**-----
Vidar Dolonen
Head of Notified Body

Job Id: **344.1-000582-52**
Certificate No: **MEDB000019G**

Product description

MP 741 Springer, rigid fast rescue boat with single point lifting hook and inflatable bag for re-righting after capsize.

Length:	7.40 m
Breadth:	2.72 m
Depth (moulded, amidships):	0.59 m
Weight of boat, fully equipped with engine:	2580 kg
Max weight of boat, fully manned (82.5 kg):	3645 kg

Hook manufacturer and type:	HMK 3.5 or HMK 5.0, off-load
Hook SWL:	3500 or 5000 kg
Hull material:	Aluminium

Propulsion system:	Inboard engine w/ waterjet
Engine manufacturer and type:	Yanmar 4LHA-STP Yanmar 6LYA-STP Volvo Penta D3-170 Volvo Penta D3-200 Volvo Penta D3-220 Volvo Penta D4-225 Volvo Penta D4-260 Volvo Penta D4-300 Volvo Penta D6-330 Volvo Penta D6-370

Waterjet types:	Vosper PP90 Hamilton 213 Hamilton 274
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Bollard pull (measured for 147 kW engine):	6.6 kN
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Application/Limitation

Approved engine power:	177 kW for Yanmar 4LHA-STP 272 kW for Yanmar 6LYA-STP 125 kW for Volvo Penta D3-170 147 kW for Volvo Penta D3-200 162 kW for Volvo Penta D3-220 165 kW for Volvo Penta D4-225 191 kW for Volvo Penta D4-260 220 kW for Volvo Penta D4-300 243 kW for Volvo Penta D6-330 272 kW for Volvo Penta D6-370
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Number of persons, max:	15*
Maximum load of persons (82.5 kg):	1238 kg

* max weight of boat, fully manned may not be exceeded (3645 kg), i.e. weight of boat, fully equipped with engine may not exceed 2407 kg for 15 persons.

- Fast 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 fast rescue boat is fitted with a release hook without on-load release capabilities, in accordance with LSA Code 4.4.7.6.9. Hence, if it is to be combined with launching appliances with permanent high speed tensioning device (LSA Code 6.1.7.3), compatibility must be assured.

- The normal equipment of the fast rescue boat to include a hands-free and watertight VHF radio communication set, in addition to the ones required on the bridge.
- 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:

Technical documentation for Springer MP 741 approved 2000-10-10

List of drawings dated 2000-07-04

Sales spec. for Rescue Boat, MP-Design Type MP 741 Springer, no 940622

Letter of type approval from NMD dated 2000-01-27

Prototype test reports approved by NMD 1994-12-07

Additional engine alternative:

- Prototype test report of 2000-12-05, witnessed by DNV
- Revision dated 2002-04-12 of drawing 740.003 regarding engine foundation

Updated seating plan:

- Fartøy testskjema from Maritime Partner 2005-06-30
- Dwg. No. E03-241-01, Seating plan for 18 pers. 2005-01-18

Additional documentation for new lifting frame:

- Doc. No. MP-2013-02, Rev.0, Strength analysis of lifting frame 2013-09-25
- Doc. No. MP-2013-06, Rev.0, Strength analysis of offshore lifting of FRB hull and attachment 2013-11-01
- Dwg. No. E01-080, Rev.A, Lifting Frame NORSOK 5T MP Boats 2013-09-13
- Dwg. No. 741.002, Rev.A, 741 Springer Construction Plan 2013-09-12

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) and IMO Res. MSC.323(89).

Marking of product

The product is to be indelibly marked with name of manufacturer, type designation, dimensions and date of manufacture, according to LSA code item 4.4.1.2 and the mark of conformity. In addition, the manufacturer shall affix the Mark of Conformity followed by DNV Notified Body No. and the two last digits of the production year.

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