



CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS
No. FAB091120XG

This is to certify that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials:

<i>Description</i>	Castings
<i>Type</i>	Casting in Grey and Nodular Graphite Cast Iron (Maximum weight: 12 Tonnes)
<i>Applicant</i>	MAN Energy Solutions SE STADTBACHSTRASSE 1, 86153 Augsburg , GERMANY
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials
<i>Reference documents</i>	Specification MAN B&W Q10.09412-5203

Issued in RINA Hamburg Marine on March 17, 2020. This Certificate is valid until February 28, 2025



Ogechukwu Ozofor

RINA Services S.p.A.



This certificate consists of this page and 1 enclosure



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No. FAB091120XG

Enclosure - Page 1 of 1

**Casting in Grey and Nodular Graphite Cast Iron
(Maximum weight: 12 Tonnes)**

APPROVAL CONDITIONS

-The approval is granted on condition that the RINA Rules for the approval, manufacture, testing and certification of materials are complied with in all respects.

-RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.

- Production-related welding may be carried out on the conditions of this approval and the documents submitted during the audit, in particular QM nos.: 04026, 02359, 02185, dated 18.02.04, 22.11.2002 and 24.09.2002 respectively.



RINA Hamburg Marine March 17,
2020



Amendment:

CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS

No. FAB091120XG

Applicant: **MAN Energy Solutions SE**
STATBACHSTRASSE 1; 86153 Augsburg, Germany.

Description: Castings.

Type: Casting in Grey and Nodular Graphite Iron.

Purpose of amendment: **Maximum weight: 120 Tons, not 12 Tonnes**

The validity of the certificate no. FAB091120XG is not affected by this amendment.



A handwritten signature in blue ink, appearing to be 'O. Ozofof', written over the RINA logo and the date stamp.

28. MAI 2021

