

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM00002KG **Revision No:** 1

This is to certify:

That Vanguard Foundry Ltd Stourbridge, Stourbridge, West Midlands, **United Kingdom**

is an approved manufacturer of Iron Castings

in accordance with **DNV** rules for classification – Ships

and the following particulars:

Iron type	Nodular cast iron
Casting method	Sand casting
Max. weight	200 kg
Max. wall thickness	40 mm
Heat treatment condition	As cast

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at Hamburg on 2022-09-13

for DNV

This Certificate is valid until 2025-06-30. DNV local station: UK & Ireland CMC & VMC

Approval Engineer: Andreas Koch

Thorsten Lohmann Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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.





Particulars of the approval

Cast iron

Iron type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Nodular	NV NCI 400	SC	200	40	AC
	NV NCI 500-7	SC	200	40	AC

Remarks:

1) SC: Sand casting

2)

AC: As cast Incl. equivalent grades in acc. to other standards 3)