



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002R3
Revision No:
1

This is to certify:

That

INDUSTRIAS METALURGICAS AUXILIARES, S.A. (INMASA)
Chinchilla de Montearagón, Albacete,
Spain

is an approved manufacturer of
Iron Castings

in accordance with

DNV rules for classification – Ships
DNV class programme – DNV-CP-0249 Iron castings

and the following particulars:

Iron type	Nodular cast iron
Casting method	Sand casting
Max. Weight	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
Remarks	Castings for Body and Butterfly Valves

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 **2023-03-21**

for **DNV**

This Certificate is valid until **2026-04-01**.

DNV local unit: **Area NB/CMC Iberia**

Approval Engineer: **Andreas Koch**

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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	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Nodular	NV NCI 400	SC	1 400	300	AC
	EN-GJS-400-15 ³⁾	SC	1 400	300	AC

Remarks:

- ¹⁾ SC: Sand casting
- ²⁾ AC: As cast
- ³⁾ According to EN 1563