

# APPROVAL OF MANUFACTURER CERTIFICATE

## This is to certify:

That

**INDUSTRIAS METALURGICAS AUXILIARES, S.A.**  
**Chinchilla de Montearagón, Albacete, Spain**

is an approved manufacturer of  
**Iron Castings**

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

and the following particulars:

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

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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2020-04-02**

for **DNV GL**

This Certificate is valid until **2023-04-01**.

DNV GL local station: **Madrid**

Approval Engineer: **Stefan Röhr**

**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 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.



Job Id: **263.11-010598-1**  
Certificate No: **AMMM00002R3**

## Particulars of the approval

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### Cast iron

Iron type	Grade	Casting method <sup>1)</sup>	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
Nodular	VL NCI 400	SC	1 400	300	AC
	EN-GJS-400-15 <sup>3)</sup>	SC	1 400	300	AC

Remarks:

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