



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:
AMMM000007R
Revision No:
4

This is to certify:

that

C.C. Jensen Casting A/S
Løvholmen 13, 5700 Svendborg, Denmark

is an approved manufacturer of
Copper Alloy Castings

in accordance with

DNV rules for classification – Ships
DNV class programme – DNV-CP-0251 Copper alloy castings

and the following particulars:

Application area	Castings for valves, fittings and general application, Castings for propellers
Alloy type	Al-bronze, Mn-bronze (NV Cu1), Ni-Mn-bronze (NV Cu2), Ni-Al-bronze (NV Cu3), Sand casting,
Manufacturing method	3 500 kg
Max. weight	See page 2
Max. wall thickness	As cast
Heat treatment condition	

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 **2026-09-21**

This Certificate is valid until **2029-10-21**.

DNV local unit: **Denmark CMC**

Approval Engineer: **Andreas Koch**



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signature

Christian Wildhagen

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 USD 300 000.

Particulars of the approval

Castings for valves, fittings and general application

Alloy type	Casting Method ¹⁾	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition
Al-bronze	SC	3500	250	AC
Mn-bronze	SC	3500	250	AC
Ni-Al-bronze	SC	3500	250	AC

Propeller and propeller parts:

Alloy type	Grade ³⁾	Casting Method ¹⁾	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition
Mn-bronze	NV Cu1	SC	3500	250	AC
Ni-Al-bronze	NV Cu3	SC	3500	250	AC

Remarks:

- ¹⁾ SC: Sand Casting
- ²⁾ AC: As cast
- ³⁾ Incl. equivalent grades in acc. to other standards