



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002MW
Revision No:
2

This is to certify:

That

Maatmetaal Rotterdam B.V.
Terbregseweg 173, 3056 JV Rotterdam,
Netherlands

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
Alloy type	Sn-bronze
Manufacturing method	Centrifugal casting
Max. weight	See page 2
Max. wall thickness	See page 2
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 **2023-12-19**

for **DNV**

This Certificate is valid until **2026-12-31**.

DNV local unit: **Netherlands CMC**

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

Castings for valves, fittings and general application

Alloy type ³⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Sn-bronze	CC	2 000	AC

Remarks:

- 1) CC: Centrifugal casting
- 2) AC: As cast
- 3) Incl. equivalent grades in acc. to other standards