

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002UJ
Revision No:
1

This is to certify:

That

Santa Caterina S.r.l.

Via Giovanni XXIII, 94/b, 21015 Lonate Pozzolo VA, Italy

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
Alloy type

Castings for valves, fittings and general application

Leaded gunmetal,

Ni-Al-bronze

Manufacturing method

Sand casting

Max. weight

See page 2

Max. wall thickness

See page 2

Heat treatment condition

See page 2

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 **2024-03-08**

This Certificate is valid until **2027-02-07**.

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Enno Brück**



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 300,000 USD.



Particulars of the approval

Castings for valves, fittings and general application

Alloy type	Grade ⁴⁾	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Leaded Gunmetal	ASTM B62 C83600	SC	1000	200	As cast
Ni-Al-bronze ³⁾	ASTM B148 C95800	SC	1000	200	As cast
	ASTM B148 C95500	SC	1000	200	As cast

Remarks:

- 1) SC: Sand Casting
- 2) AC: As cast
- 3) Possible application and certification of any material to classed object is subject to case by case approval
- 4) Incl. equivalent grades in acc. to other standards