APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:
AMMM00001EV
Revision No:
3

This is to certify:

that

Tanabe Corporation, Teramachi Factory
1-9-20 Teramachi, Itoigawa City, Niigata, 941-0058,
Japan

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,** **Pb-Sn-bronze**
Manufacturing method	**Sand casting**
Max. weight	**2 100kg**
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 **2026-04-14**

This Certificate is valid until **2029-06-30**.
DNV local unit: **Japan CMC**

Approval Engineer: **Andreas Koch**

for **DNV**

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

Christian Wildhagen

Particulars of the approval

Castings for valves, fittings and general application

Alloy type [3]	Casting method [1]	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition [2]
Sn-bronze	SC	2 100	60	AC
Pb-Sn Bronze	SC	2 100	60	AC

Remarks:

1) SC: Sand Casting
2) AC: As cast
3) Incl. equivalent grades in acc. to other standards (e.g. CAC402, CAC403, CAC406 according to JIS H 5120)