



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002UM
Revision No:
1

This is to certify:

That

Fonderia Augusta S.r.l.

**Via Landri, 1 e/f – 24060 Costa di Mezzate BG,
Italy**

is an approved manufacturer of
Steel Castings

in accordance with

**DNV rules for classification – Ships
DNV class programme – DNV-CP-0246 Steel castings**

and the following particulars:

Application area	Castings for boilers, pressure vessels and piping systems, Stainless steel castings
Steel type	Carbon and carbon-manganese, Alloy, Austenitic stainless, Austenitic-ferritic (duplex) stainless, Martensitic stainless
Casting method	Sand casting
Max. weight	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
Additional approval conditions	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 **Høvik** on **2024-02-02**

This Certificate is valid until **2027-02-09**.

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

Approval Engineer: **Dechun Lou**



for **DNV**

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

Stefan Röhr

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.



Form code: AM 311

Revision: 2022-12

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Particulars of the approval

Castings for boilers, pressure vessels and piping systems

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	NV C450H, NV C490H	SC	300	50	N, NT, QT
Alloy	NV C0.5Mo, NV C1Cr0.5Mo, NV C2.25Cr1Mo	SC	300	50	QT

Stainless steel castings

Steel type	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic	SC	300	50	SHT
Martensitic ^{4) 5)}	SC	300	50	QT
22 Cr Duplex	SC	300	50	SHT
25 Cr Duplex	SC	300	50	SHT

Steel castings acc. other standards

Steel type /grade	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
ASTM A216 grades WCA, WCB	SC	300	50	N, NT, QT
ASTM A217 grades WC6, WC9	SC	300	50	N, NT, QT
EN 10213-2 grades GP240GH, P280GH	SC	300	50	N, QT
ASTM A217 grade C12A ⁵⁾	SC	300	50	NT
ASTM A352 grade LC2 ⁵⁾	SC	300	50	N, NT, QT

Remarks:

- 1) SC: Sand Casting
- 2) SHT: Solution Heat Treated (Solution Annealing)
 N: Normalized
 QT: Quenched and tempered
 NT: Normalized and tempered
- 3) Incl. equivalent grades in acc. to other standards
- 4) ASTM A487 grade CA6NM
- 5) Possible application and certification of any material to classed object is subject to case by case approval