



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000020N
Revision No:
1

This is to certify:

That

SIJ METAL RAVNE d.o.o.
Koroška cesta 14, Si-2390, Ravne na Koroškem,
Slovenia

is an approved manufacturer of
Steel Forgings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Forgings for boilers, pressure vessels and piping systems
Steel type	Carbon and carbon-manganese, Alloy
Forging method	See page 2
Max. weight	24 000 kg
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 **Hamburg** on **2021-12-15**

for **DNV**

This Certificate is valid until **2024-12-31**.

DNV local station: **Rijeka**

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.



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Particulars of the approval

Forgings for boilers, pressure vessels and piping systems

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Max. diameter / section [mm]	Heat treatment condition ²⁾
C and C-Mn	Acc. EN 10083-2	OD	24 000	1 050	N, QT
	Acc. EN 10084	OD	24 000	1 050	Acc. standard
	Acc. EN 10089	OD	24 000	1 050	N, NT, QT
	Acc. EN 10222-2	OD	24 000	1 050	N, NT, QT
	Acc. EN 10250-2	OD	24 000	1 050	N, NT, QT
Alloy	Acc. EN 10089	OD	24 000	1 050	N, NT, QT
	Acc. EN 10084	OD	24 000	1 050	Acc. standard
	Acc. EN 10083-3	OD	24 000	1 050	QT
	Acc. EN 10222-2	OD	24 000	1 050	N, NT, QT
	Acc. EN 10250-3	OD	24 000	1 050	QT

Remarks:

- ¹⁾ OD: Open die forging
- ²⁾ QT: Quenched and tempered
 N: Normalised
 NT: Normalised and tempered
- ³⁾ Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules

Special conditions:

Including steelmaking, see AMMM000020M