



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000CG
Revision No:
3

This is to certify:

That

ERNE FITTINGS GmbH
Hauptstraße 48, 6824 Schlins,
Austria

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with

DNV rules for classification – Ships

and the following particulars:

Product	Fittings
Application area	Piping fittings
Steel type	Carbon and carbon-manganese, Alloy,
Manufacturing method	Hot formed
Max. outer diameter	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 **2022-05-10**

This Certificate is valid until **2025-02-14**.

DNV local station: **Augsburg**

Approval Engineer: **Torben Schälicke**



for **DNV**

Digitally Signed By: Wildhagen, Christian

Location: DNV Hamburg, Germany

Signing Date: 10.05.2022, on behalf of

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.



Form code: AM 311

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Particulars of the approval

Piping fittings (elbows, tees, reducers and caps)

Steel type ²⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	HFS	914	60	acc. standard
Alloy	HFS	914	60	acc. standard

Remarks:

¹⁾ HFS: hot finished seamless

²⁾ Piping fitting

Suitable pipe grades shall be selected from the following recognised standards:

EN 10253, ASTM A234, ASTM A403, ASTM A420, ASTM A744, ASTM A815, ASTM A860, ASTM A960, ASTM A961, JIS B2312, JIS B2313 or JIS B2316.