



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000D0
Revision No:
2

This is to certify:

That

Hans Körber GmbH
Am Straßenverkehrsamt 7-9, 32278 Kirchlengern,
Germany

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV rules for classification – Ships

and the following particulars:

Steel type(s)	C & C-Mn, Alloy Steels
Process	Hot forming process
Dimensions	max. Ø355.6 x 12.5 mm
Welding Method	Not applicable
Remarks	see Particulars of the approval

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 **2022-07-27**

for **DNV**

This Certificate is valid until **2025-02-21**.

DNV local station: **Magdeburg**

Approval Engineer: **Enno Brück**

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

Revision: 2021-03

www.dnv.com

Page 1 of 2

Particulars of the approval

Piping fittings

Grade	Manufacturing method ¹⁾	Wall Thickness [mm], max.	Outer Diameter [mm], max.	Heat treatment condition ²⁾
P235TR2 acc. to EN 10253-2	HFS	25	355.6	N
P265TR2 acc. to EN 10253-2	HFS	25	355.6	N
P235GH acc. to EN 10253-2	HFS	25	355.6	N
P265GH acc. to EN 10253-2	HFS	25	355.6	N
16Mo3 acc. to EN 10253-2	HFS	25	355.6	N
10CrMo5-5 acc. to EN 10253-2	HFS	25	355.6	NT
13CrMo4-5 acc. to EN 10253-2	HFS	25	355.6	NT
10CrMo9-10 acc. to EN 10253-2	HFS	25	355.6	NT
WPA acc. to ASTM A234	HFS	25	355.6	N
WPB acc. to ASTM A234	HFS	25	355.6	N
WPC acc. to ASTM A234	HFS	25	355.6	N
WP1 acc. to ASTM A234	HFS	25	355.6	N
WP11 acc. to ASTM A234	HFS	25	355.6	NT
WP12 acc. to ASTM A234	HFS	25	355.6	NT
WP22 acc. to ASTM A234	HFS	25	355.6	NT

Remarks:

- ¹⁾ HFS: hot finished seamless
- ²⁾ N: Normalised
 NT: Normalised and tempered