



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000223
Revision No:
2

This is to certify:

That

H. Butting GmbH & Co. KG
Gifhorner Str. 59, 29379 Wittingen-Knesebeck, Germany

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with

DNV rules for classification – Ships
DNV rules for classification – Naval vessels
DNV class programme – DNV-CP-0252 Steel pipes and steel pipe fittings

and the following particulars:

Product	Pipes and fittings
Application area	Austenitic and ferritic-austenitic steel pipes, Pipes of liquid quenched and tempered structural steels, Pipes of non-magnetizable steels, Piping fittings
Steel type	Carbon and carbon-manganese, Alloy, Austenitic stainless, Ferritic-austenitic (Duplex) stainless, See page 2
Manufacturing method	Welded
Max. outer diameter	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
Additional approval conditions	See page 2

Manufacturer approved by this certificate is 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 **2023-08-28**

for **DNV**

This Certificate is valid until **2026-05-31**.

DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Shylate Mahachi**

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

Pipes

Steel type	Grade ¹⁾	Manufacturing method	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition
Austenitic	1.4565 acc. SEW400	Welded	323.9	15	Acc. standard
Austenitic	Acc. EN 10217-7	Welded	3 000	40	Acc. standard
Austenitic -ferritic	Acc. EN 10217-7	Welded	3 000	40	Acc. standard
Non-magnetizable	1.3964 acc. SEW390	Welded	3 000	30	Acc. standard
Liquid quenched and tempered	VL-M550 (HY-80; 1.6780)	Welded	3 000	15	Acc. standard

Piping fittings

Steel type	Grade	Manufacturing method	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic	Acc. EN 10253-4	Welded	610	15	Acc. standard
Austenitic-ferritic	Acc. EN 10253-4	Welded	610	15	Acc. standard

Remarks:

- ¹⁾ Possible application and certification of any material to classed object is subject to case by case approval

Additional approval conditions:

- Approved for low temperature service for austenitic stainless steel.