

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000223
Revision No:
1

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 GL rules for classification – Ships
DNV GL rules for classification – Naval vessels

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(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2020-07-21**

for **DNV GL**

This Certificate is valid until **2023-05-31**.

DNV GL local station: **Hamburg CMC**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

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Job Id: **263.11-003082-3**
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Particulars of the approval

Pipes

Steel type	Grade	Manufacturing method	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic	1.4565 acc. SEW400 ²⁾	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.