



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000C9
Revision No:
2

This is to certify:

That

Siekmann GmbH & Co. KG
Fischerstrasse 4,
32257 Bünde,
Germany

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV rules for classification – Ships

and the following particulars:

Product/Application area	Piping fittings
Steel type	Carbon and carbon-manganese, Austenitic stainless, Ferritic-austenitic (Duplex) stainless, See page 2
Manufacturing method	Seamless hot formed
Max. outer diameter	219.1 mm
Max. wall thickness	20 mm
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 **2022-03-24**

for **DNV**

This Certificate is valid until **2025-02-10**.

DNV local station: **Magdeburg**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

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Particulars of the approval

Piping fittings

Steel type	Grade	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Pipe fittings acc. EN 10253-2					
C and C-Mn	P235TR2, P265TR2, P235GH, P265GH, 16Mo3, P355N, P355NH	HFS	219.1	20	N
Pipe fittings made from pipes acc. EN 10216-3:					
C and C-Mn	P355NL1, P355NL2	HFS	219.1	20	N
Pipe fittings acc. EN 10253-4					
Austenitic	1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4435, 1.4436, 1.4541, 1.4550, 1.4571	HFS	219.1	20	SHT
Duplex	1.4462	HFS	219.1	20	SHT
Pipe fittings acc. ASTM A234					
C and C-Mn	WPA, WPB, WPC, WP1	HFS	219.1	20	N
Pipe fittings acc. ASTM A403					
Austenitic	WP304, WP304L, WP316, WP316L, WP321, WP347	HFS	219.1	20	SHT
Pipe fittings acc. ASTM A815					
Duplex	WP S31803	HFS	219.1	20	SHT

Remarks:

- 1) HFS: Hot finished seamless
- 2) N: Normalised
SHT: Solution Heat Treated (solution annealing)