

# APPROVAL OF MANUFACTURER CERTIFICATE

**This is to certify:**

**That**  
**Siekmann GmbH & Co. KG**  
**Fischerstrasse 4**  
**Bünde, Germany**

is an approved manufacturer of  
**Steel Pipes and Fittings**

in accordance with  
**DNV GL rules for classification – Ships**

and the following particulars:

<b>Products</b>	<b>Pipe Fittings (e.g. elbows)</b>
<b>Steel type(s)</b>	<b>Pipes for Pressure Systems</b>
	<b>Austenitic and Ferritic-Austenitic Steel Pipes</b>
	<b>Boiler and Superheater Tubes</b>
<b>Process</b>	<b>Hot Forming Process</b>
<b>Dimensions</b>	<b>max. Ø219.1 x 20 mm</b>
<b>Welding Method</b>	<b>not applicable</b>
<b>Remarks</b>	<b>see Particulars of the approval</b>

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.

This Certificate is valid until **2019-02-10**.

Issued at **Hamburg** on **2016-02-11**

DNV GL local station: **Magdeburg**

Approval Engineer: **Oliver Krömer**

for **DNV GL**

**Thorsten Lohmann**  
**Head of Section**

## Particulars of the approval

### Connecting Elements and Fittings:

Grade	Product	Supply Condition	Wall Thickness [mm], max.	Diameter [mm], max.
P235TR2 acc. to EN 10253-2	RF	N	20	219.1
P265TR2 acc. to EN 10253-2	RF	N	20	219.1
P235GH acc. to EN 10253-2	RF	N	20	219.1
P265GH acc. to EN 10253-2	RF	N	20	219.1
16Mo3 acc. to EN 10253-2	RF	N	20	219.1
P355N acc. to EN 10253-2	RF	N	20	219.1
P355NH acc. to EN 10253-2	RF	N	20	219.1
1.4301 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4306 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4307 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4401 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4404 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4435 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4436 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4541 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4550 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4571 acc. to EN 10253-4	RF-A	S+Q	20	219.1
1.4462 acc. to EN 10253-4	RF-A	S+Q	20	219.1
WPA acc. to ASTM A234	RF	N	20	219.1
WPB acc. to ASTM A234	RF	N	20	219.1
WPC acc. to ASTM A234	RF	N	20	219.1
WP1 acc. to ASTM A234	RF	N	20	219.1
WP304 acc. to ASTM A403	RF-A	S+Q	20	219.1
WP304L acc. to ASTM A403	RF-A	S+Q	20	219.1
WP316 acc. to ASTM A403	RF-A	S+Q	20	219.1

Job Id: **263.11-005571-1**  
Certificate No: **AMMM00000C9**

<b>Grade</b>	<b>Product</b>	<b>Supply Condition</b>	<b>Wall Thickness</b> [mm], max.	<b>Diameter</b> [mm], max.
WP316L acc. to ASTM A403	RF-A	S+Q	20	219.1
WP316Ti acc. to ASTM A403	RF-A	S+Q	20	219.1
WP321 acc. to ASTM A403	RF-A	S+Q	20	219.1
WP347 acc. to ASTM A403	RF-A	S+Q	20	219.1
WPS31803 acc. to ASTM A815	RF-A	S+Q	20	219.1

RF: pipe fittings      -A: austenitic / austenitic-ferritic stainless steels      N: normalized or normalized formed  
S+Q: solution annealed + quenched