



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00000VJ**  
Revision No:  
**3**

This is to certify:

That

**Wilhelm Schulz GmbH**  
**Kuhleshütte 111,**  
**47809 Krefeld,**  
**Germany**

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

in accordance with  
**DNV rules for classification – Ships**  
**DNV-OS-B101 – Metallic materials**

and the following particulars:

<b>Product</b>	<b>Fittings</b>
<b>Application area</b>	<b>Piping fittings</b>
<b>Steel type</b>	<b>Carbon and carbon-manganese, Austenitic stainless, Ferritic-austenitic (Duplex) stainless, See page 2</b>
<b>Manufacturing method</b>	<b>Cold formed, seamless or welded</b>
<b>Max. outer diameter</b>	<b>See page 2</b>
<b>Max. wall thickness</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>

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 **2022-07-20**

This Certificate is valid until **2025-07-31**.

DNV local station: **Essen**

Approval Engineer: **Christian Wildhagen**



for **DNV**

Digitally Signed By: Wenning, Martin

Location: DNV Hamburg, Germany

Signing Date: 20.07.2022, on behalf of

**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

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## Particulars of the approval

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### Piping fittings

Steel type <sup>2)</sup>	Manufacturing method <sup>1)</sup>	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition
C and C-Mn	CFS / EFW	1067	75	Acc. standard
Austenitic stainless	CFS / EFW	1067	75	Acc. standard
Ferritic-austenitic (Duplex) stainless	CFS / EFW	1067	75	Acc. standard

#### Remarks:

- 1) CFS: cold finished seamless  
EFW: electric fusion welded
- 2) Suitable pipe fittings shall be selected from the following recognized standards:  
EN 10253, ASTM A234, ASTM A403, ASTM A420, ASTM A744, ASTM A815, ASTM A960, ASTM A961, JIS B2312, JIS B2313 or JIS B2316.

#### Special conditions:

- Non-destructive and destructive testing outsourced to approved companies/laboratories.
- Including austenitic stainless steel for approved low-temperature applications