

# APPROVAL OF MANUFACTURER CERTIFICATE

## This is to certify:

That

**Vallourec Tianda (Anhui) Co., Ltd.**  
**Ziwei South Road, Chuzhou City, Anhui,**  
**China**

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

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

and the following particulars:

<b>Product</b>	<b>Pipes</b>
<b>Application area</b>	<b>Pipes for pressure systems</b>
<b>Steel type</b>	<b>Carbon and carbon-manganese</b>
<b>Manufacturing method</b>	<b>Hot finished seamless</b>
<b>Max. outer diameter</b>	<b>325 mm</b>
<b>Max. wall thickness</b>	<b>17.5 mm</b>
<b>Heat treatment condition</b>	<b>See page 2</b>
<b>Additional approval conditions</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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2019-03-15**

for **DNV GL**

This Certificate is valid until **2021-12-31**.

DNV GL local station: **Nanjing**

Approval Engineer: **Christian Wildhagen**

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



Job Id: **263.11-002479-3**  
Certificate No: **AMMM00002G9**

## Particulars of the approval

### Pipes for pressure systems

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	HFS	325	17.5	Acc. standard

Remarks:

<sup>1)</sup> HFS: hot finished seamless

<sup>2)</sup> Pipes for pressure systems

Suitable pipe grades shall be selected from the following recognised standards:

ISO 9329 Parts 1 and 2, ISO 9330 Parts 1 and 2, EN 10216 Parts 1 to 3, EN 10217 Parts 1 to 3, EN 10305 Part 1 and 2, ASTM A53, ASTM A106, ASTM A135, ASTM A335, JIS G3454, JIS G3455, JIS G3456 or JIS G3458

Special conditions:

Including automatic non-destructive testing in lieu of hydraulic testing according to relevant standard