

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:**That****Erne Fittings GmbH**
Plant Schlins, Hauptstraße 48, 6824 Schlins,
Austriais an approved manufacturer of
Steel Pipes and Fittingsin accordance with
DNV GL rules for classification – Ships

and the following particulars:

Product	Fittings
Application area	Piping fittings
Steel type	Carbon and carbon-manganese, Alloy,
Manufacturing method	Hot formed
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 **2019-03-04**This Certificate is valid until **2022-02-14**.DNV GL local station: **Augsburg**for **DNV GL**Approval Engineer: **Enno Brück**

.....
Thorsten Lohmann
Head of Section



Job Id: **263.11-005594-3**
Certificate No: **AMMM00000CG**
Revision No: **2**

Particulars of the approval

Piping fittings (elbows, tees, reducers and caps)

Steel type ²⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Delivery condition
C and C-Mn	HFS	914	60	acc. standard
Alloy	HFS	914	60	acc. standard

Remarks:

- 1) HFS: hot finished seamless
- 2) Piping fitting

Suitable pipe grades shall be selected from the following recognised standards:
EN 10253, ASTM A234, ASTM A403, ASTM A420, ASTM A744, ASTM A815, ASTM A860, ASTM A960, ASTM A961, JIS B2312, JIS B2313 or JIS B2316.