



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002EG
Revision No:
1

This is to certify:

That

B.F.E. S.r.l.
Albano Sant'Alessandro, BG,
Italy

is an approved manufacturer of
Steel Forgings

in accordance with
DNV rules for classification – Ships

and the following particulars:

Application area	Forgings for boilers, pressure vessels and piping systems
Steel type	Stainless steel forgings Carbon and carbon-manganese Austenitic stainless Austenitic-ferritic (Duplex) stainless
Forging method	Closed die forging
Max. weight	60 kg
Max. diameter / section	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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2022-07-21**

for **DNV**

This Certificate is valid until **2025-01-22**.

DNV local station: **Italy/Malta CMC**

Approval Engineer: **Christian Wildhagen**

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

www.dnv.com

Page 1 of 2

Particulars of the approval

Forgings for boilers, pressure vessels and piping systems

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Max. diameter / section [mm]	Heat treatment condition ²⁾
C and C-Mn	VL F450H, VL F490H	CD	60	136	QT

Stainless steel forgings

Steel type ⁴⁾	Forging method ¹⁾	Max. weight [kg]	Max. diameter / section [mm]	Heat treatment condition ²⁾
Austenitic	CD	60	136	SHT
22 Cr Duplex	CD	60	136	SHT
25 Cr Duplex	CD	60	136	SHT

Remarks:

- 1) CD: Closed die forging
- 2) QT: Quenched and tempered
SHT: Solution Heat Treated (Solution Annealing)
- 3) Incl. equivalent grades in acc. to other standards
- 4) Stainless steel forgings shall be in accordance with recognized standards, e.g. EN 10222, ASTM A473/A965/A1049 and JIS G 3214, provided that supplementary requirements contained herein are also met. Recognition of other standards is subject to submission to the Society for evaluation.

Special conditions:

Including austenitic stainless steel for approved low-temperature applications.
 The manufacturers of starting material have to be approved by the Society.