APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002EG
Revision No:
2

This is to certify:

That

B.F.E. S.r.l.
Via Tonale 70/A 24061 Albano Sant'Alessandro BG,
Italy

is an approved manufacturer of
Steel Forgings

in accordance with
DNV rules for classification – Ships
DNV class programme – DNV-CP-0247 Steel forgings

and the following particulars:

Application area	**Forgings for boilers, pressure vessels and piping systems** **Stainless steel forgings**
Steel type	**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 **2025-01-29**

This Certificate is valid until **2028-01-22**.
DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Andrzej Otrebski**

for **DNV**

This document has been digitally signed and will therefore not have handwritten signature
Christian Wildhagen

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.

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	NV F450H, NV 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.