

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001FW
Revision No:
1

This is to certify:

That

Stamperia Casoli S.r.l.

**Via delle Industrie, 10, 21048 Solbiate Arno VA,
Italy**

is an approved manufacturer of
Steel Forgings

in accordance with
DNV GL rules for classification – Ships

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,
Forging method	See page 2
Max. weight	20 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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2020-06-17**

for **DNV GL**

This Certificate is valid until **2023-06-30**.

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

Approval Engineer: **Andreas Koch**

Thorsten Lohmann
Head of Section

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Job Id: **263.11-007678-2**
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Particulars of the approval

Forgings for boilers, pressure vessels and piping systems

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	VL F450H, VL F490H	CD, OD	20	N

Stainless steel forgings

Steel type / grade ^{3) 4)}	Forging method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Austenitic stainless	CD, OD	20	SHT

Remarks:

- 1) CD: Closed die forging
OD: Open die forging
- 2) N: Normalised
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 A350/A182 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 ferritic and austenitic forgings for low temperature service.