



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000018F**  
Revision No:  
**2**

This is to certify:

That

**Viraj Profiles Private Limited**

**Survey No.140/1& G-75 MIDC Tarapur Industrial Area, Boisar, Dist & Taluka Palghar,  
Maharashtra-401506,  
India**

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:

<b>Application area</b>	<b>Stainless steel forgings</b>
<b>Steel type</b>	<b>Austenitic stainless, Martensitic stainless, Ferritic stainless, 22Cr duplex stainless, See page 2</b>
<b>Forging method</b>	<b>Open die forging / closed die forging / ring rolling, See page 2</b>
<b>Max. weight</b>	<b>1 200 kg</b>
<b>Heat treatment condition</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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2023-04-18**

This Certificate is valid until **2025-12-31**.

DNV local unit: **India**

Approval Engineer: **Andreas Koch**



for **DNV**

Digitally Signed By: Wildhagen, Christian  
Location: DNV Hamburg, Germany  
Signing Date: 19.04.2023, on behalf of

**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: 2022-12

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## Particulars of the approval

### Stainless steel forgings

Steel type / grade <sup>3)</sup>	Forging method <sup>1)</sup>	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
Austenitic stainless	OD, CD, RR	1 200	190	SHT
Martensitic stainless	OD	1 200	190	QT
Ferritic stainless	OD	1 200	190	A
22Cr Duplex stainless	OD, CD, RR	1 200	190	SHT

Remarks:

- 1) OD: Open die forging  
 CD: Closed die forging  
 RR: Ring Rolling
- 2) SHT: Solution Heat Treated (Solution Annealing)  
 QT: Quenched and tempered  
 A: Annealed
- 3) Stainless steel forgings shall be in accordance with recognized standards, e.g. EN 10222, ASTM A473/A965/A1049/A182 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.