

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That
Acciaierie Valbruna S.P.A.
Vicenza VI, Italy

is an approved manufacturer of
Steel Forgings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Stainless steel forgings
Steel type(s)	Austenitic stainless, Martensitic stainless, Austenitic-ferritic (duplex) stainless, see page 2
Manufacturing method	Open die forging / hot rolling
Max. weight	See page 2
Max. diameter	See page 2
Delivery Condition	See page 2
Remarks	Including rolled bars intended for machining into components; Including semi-finished rolled or forged products for forging stock

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 **2018-03-27**

for **DNV GL**

This Certificate is valid until **2021-03-31**.

DNV GL local station: **Venice**

Approval Engineer: **Stefan Röhr**

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Thorsten Lohmann
Head of Section



Particulars of the approval

Stainless steel forgings

Steel type / grade ^{3) 4) 5)}	Forging method ¹⁾	Max. weight [kg]	Max. diameter [mm]	Delivery condition ²⁾
Austenitic stainless	OD, RB	5 500	155	SHT
Martensitic stainless	OD, RB	5 500	155	QT
Austenitic-ferritic (duplex) stainless	OD, RB	5 500	155	SHT

Remarks:

- 1) OD: Open die forging; RB: Rolled bars
- 2) QT: Quenched and tempered; SHT: Solution Heat Treated (Solution Annealing)
- 3) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules
- 4) Stainless steel forgings shall be in accordance with recognised standards, e.g. EN 10222, ASTM A473/A965/A1049 and JIS G 3214. Recognition of other standards is subject to submission to the Society for evaluation
- 5) Including semi-finished rolled or forged products for forging stock