



Marine & Offshore

Certificate number: 39981/B0 BV

File number: MAT 87704-2014

Product code: 8153I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

FORGE NICROMO SpA

Bindo di Cortenova (LC) - ITALY

for the type of product

STEEL FORGINGS

Carbon, carbon-manganese, low alloy and austenitic stainless steel forgings

Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate is a renewal of certificate N° 39981/A1 BV expiring on 16/12/2019

This certificate will expire on: 16 Dec 2024

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 12 Dec 2019,

Sandro BRUSEGAN



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Forgins for marine applications such as rings, bushings, discs etc.

Type of steel	Max. Dimensions & Weight	Typical tested grades
Carbon steels Carbon-manganese steels	Diameter up to 1300mm, Weight up to 3000 kg	Grade LF2 according to ASTM A350M
Low-alloy steels	Diameter up to 1300mm, Weight up to 3000 kg	Grade F22 according to ASTM A182M
Austenitic stainless steels	Diameter up to 1100mm, Weight up to 2000 kg	Grade F316/F316L according to ASTM A182M

Open die forging by press and ring rolling; heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

- "Approval documentation for manufacturing process of metallic steel according to Rule note NR 480" Ref.P0901-40 Rev.0 dated 05/11/2014 issued by Forge Nicromo S.p.A.

3. TEST REPORTS :

- "Approval documentation for manufacturing process of metallic steel according to Rule note NR 480" Ref.P0901-40 Rev.0 dated 05/11/2014 issued by Forge Nicromo S.p.A.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification. Chemical composition, tensile properties and Charpy-V notch test requirements are to be as per Bureau Veritas rules NR216 and/or alternative specification mentioned on reviewed drawings, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by Forge Nicromo S.p.A. in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals No.39981/A0 BV and No.39981/A1 BV.

*** END OF CERTIFICATE ***