



Marine & Offshore

Certificate number: 21193/C0 BV

File number: MAT 13381-2008

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

ASFO SPA
- ITALY

for the type of product

STEEL FORGINGS

Carbon, Carbon-manganese, Low alloy, Alloy, Austenitic, Austenitic-ferritic and Martensitic steel forgings with maximum weight 15 Tons.

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 will expire on: 26 Mar 2024

For Bureau Veritas Marine & Offshore,
At BV VENEZIA, on 26 Mar 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 :

Steel forgings with maximum weight 15 tons.

Forgings are made by upsetting and hot rolling . Forgings are heat treated, as applicable.

Products are made at Chiuppano Plant or/and Villamarzana Plant .

2. DOCUMENTS AND DRAWINGS :

As per documents issued by ASFO Spa:

- "Technical Qualification of the Company" Edition 8 Rev.11 dated 22 November 2018.
- "Factory and Process Recognition under Bureau Veritas Mode II NR480", submitted in 2013.
- "Technical Qualification of the Company" dated 24 July 2013.
- Forgings details dated 12 December 2013.
- Procedure Ultrasons N° B-7-P1 Rev.05 dated 08 June 2015.
- Procedure Magnetic particle N° B-7-P3 Rev.05 dated 02 August 2017.
- "TDS N°4090-385000e Rev.2 Technical Delivery Specification for Corrosion resisting forgings for shafts or general use" issued by Voith and dated 30 June 2009.

3. TEST REPORTS :

3.1 Typical tested grades are :

- C20 as per UNI7874 and S355J2G3 as per EN10250-2 for carbon steel;
- LF2 CL1 as per ASTM A350 for carbon-manganese steel;
- 18CrNiMo7-6 as per EN10084; F22 as per ASTM A182; 34CrNiMo6 and 42CrMo4 as per EN10083-1 for alloy steel;
- F304-2 as per ASTM A182 for austenitic steel;
- F51, F53 as per ASTM A182 for austenitic-ferritic steel;
- X12Cr13 as per EN10088-3; F6A CL 2 as per ASTM A182 for martensitic stainless steel;
- X3CrNiMo 13-4 according to Technical specification TDS 4090-38500e Rev.2.

3.2 As per documents issued by ASFO Spa:

- "Factory and Process Recognition under Bureau Veritas Mode II NR480", submitted 2013.
- Test reports - forgings grades S355J2G3 , 34CrNiMo6 , F6A CL 2 and X3CrNiMo13-4 dated 07 November 2013.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

Steel grade specification for chemical composition and mechanical properties is to be as per Bureau Veritas Materials Rules for Classification and/or material specification reviewed by the Society, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by ASFO Spa 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 from No.21193/A0 BV to No.21193/B0 BV.

*** END OF CERTIFICATE ***



Marine & Offshore

Certificate number: SMS.W.II./13381/F.0

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RECOGNITION FOR BV MODE II SCHEME

ASFO SPA
- ITALY

Summary of the range of the recognition which is detailed in the subsequent page(s):

Manufacture of forged rings, flanges, disks, valve ball and bodies, sharpened rings in carbon, alloy, stainless, in rough rough machined and finished machining conditions.

This certificate is issued to attest that Bureau Veritas Marine & Offshore has performed, at the above company's request and in compliance with the requirements of NR320, a satisfactory assessment of the manufacturing facilities and associated quality procedures related to the range of the recognition.

This certificate will expire on: 05 Nov 2024

For BUREAU VERITAS,
At BV GENOA, on 05 Nov 2020,
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. 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 electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfRecognition.jsp?id=1jixz0o3bs>

BV Mod. Ad.E 697 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF RECOGNITION

1. RANGE OF THE RECOGNITION

The products listed in the table below are to be certified individually or per batch by Bureau Veritas Marine & Offshore in compliance with the applicable requirements (IBV products as defined in NR320).

App. number	Validity date	Item designation	Trade name
21193/C0 BV	26 Mar 2024	STEEL FORGINGS - 8153I	Carbon, Carbon-manganese, Low alloy, Alloy, Austenitic, Austenitic-ferritic and Martensitic steel forgings with maximum weight 15 Tons.

2. LIMITATIONS

The certificates listed in the range of recognition are to be valid, as applicable.

Bureau Veritas Marine & Offshore is to be informed immediately of any modification to manufacturing facilities and associated quality procedures in order to agree on appropriate actions.

ASFO SPA has to apply for the periodical audits as agreed with Bureau Veritas Marine & Offshore.

3. PERIMETER OF CERTIFICATION

Quality system of following site(s) has been assessed:

ASFO SPA - ITALY

ASFO SPA-Villamarzana plant - VILLAMARZANA-RO - ITALY

4. REMARKS

Inspection and Tests according to Process Control Plan.

See ASFO Procedures list Rev.91 and ASFO Work Instructions list - 20.09.2016

*** END OF CERTIFICATE ***