



Marine & Offshore

Certificate number: 45646/B0 BV

File number: MAT 56831-2016

Product code: 8153I

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

www.veristar.com

APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

FEAT GROUP S.p.A. division Feat Industriale
CESANA BRIANZA (LC) - ITALY

for the type of product

STEEL FORGINGS

Forgings made in carbon, carbon-manganese, alloy, austenitic stainless and austenitic-ferritic (duplex) steels up to 100Kg.

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: 22 Jul 2026

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 22 Jul 2021,

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 :

Forgings for marine applications such as bodies, bonnets and valve components etc.

Type of steel	Max. Weight	Typical tested grades
Carbon steels Carbon-manganese steels	Weight up to 100kg	P250GH according to DIN EN 10222-2
Alloy steels	Weight up to 100kg	25CrMo4 according to EN 10083-3
Austenitic stainless steels	Weight up to 100kg	X6CrNiNb 18-10 according to DIN EN 10222-5 Grade F316L according to ASTM A182
Austenitic-Ferritic stainless steels (Duplex)	Weight up to 100kg	Grades F51 according to ASTM A182

Closed die forging by presses . Heat treatment as applicable. Minimum forging ratio is 3:1.

2. DOCUMENTS AND DRAWINGS :

2.1 - As per following documents issued by FEAT GROUP S.p.A. division Feat Industriale:

- "Organization chart" Rev.03 dated 03/02/2015, procedure Ref.FI07 Rev.07 dated 08/11/2014, "Procedure FEAT group" and "Instruction FEAT group" dated 21/10/2014,
- Manufacturing procedure Ref.SP014 Rev.00 dated 10/01/2013.

3. TEST REPORTS :

3.1 - For carbon, carbon manganese steels: Ref.216/15 dated 10/12/2015, No.544 dated 06/11/2015, No.2877 dated 09/12/2015, No.338-430333 dated 17/11/2015, Ref.338-3S(MI) dated 23/05/2016; Ref.250/15 dated 24/11/2015, Ref.355-CNE(MI) dated 31/05/2016 issued by FEAT GROUP S.p.A. division Feat Industriale.

3.2 - For alloy steels: Ref.154/12 dated 06/06/2012, Ref.0679RP404/12 dated 27/04/2012, Ref.E64-AE dated 04/04/2012 and dated 07/05/2012, Ref.1945 dated 04/06/2012, Ref.1155RP304/12 dated 30/05/2012 issued by FEAT GROUP S.p.A. division Feat Industriale

3.3 - For austenitic stainless steels: Ref.217/15 dated 01/12/2015, Ref.540 dated 27/10/2015, Ref.977 dated 24/11/2015, Ref.15/2691RP06 dated 24/11/2015, Ref. 338-82562 dated 02/11/2015, Ref.338-7R dated 20/11/2015; Ref.188/15 dated 09/10/2015, Ref.809-008(MA) dated 26/05/2016, Ref.809-ACVX(MI) dated 23/05/2016, Ref.809-ACVX dated 05/10/2015; Ref.189/15 dated 08/10/2015, Ref.809-111(MA) dated 26/05/2016, Ref.809-AEIK(MI) dated 23/05/2016, Ref.809-AEIK dated 05/10/2015 issued by FEAT GROUP S.p.A. division Feat Industriale.

3.4 - For Austenitic-Ferritic stainless steels: Reports Ref.TRP 444/12, Ref.DUR2 444/12, Ref.ANL 444/12, Ref.E562 444/12 MIC 444/12 dated 18/01/2012 issued by Sider Test S.r.l.

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 FEAT GROUP S.p.A. division Feat Industriale 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 approval No.45646/A0 BV.

***** END OF CERTIFICATE *****