



Marine & Offshore

Certificate number: SMS.W.II./52857/F.0

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RECOGNITION FOR BV MODE II SCHEME

FOMAS SPA
OSNAGO - ITALY

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

Manufacturing of forgings in carbon, lowalloy, high-alloy and stainless steel, nickel and titanium alloys, according to customer's specifications/drawings and national/international standards

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: 21 Dec 2027

For BUREAU VERITAS,
At BV NAPOLI, on 13 Mar 2024,
Sandro BRUSEGAN

This certificate was created electronically and is valid without signature



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 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
35493/C0 BV	19 Oct 2028	STEEL FORGINGS - 8153I	Stainless steel forgings of maximum weight 25 tons.
40878/B0 BV	08 Jul 2025	STEEL FORGINGS - 8153I	Alloy steel forgings with mass up to 32 tons.

The products corresponding to the categories 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).

Generic product	Description
FORGING	Manufacturing of forgings in carbon, lowalloy, high-alloy and stainless steel, nickel and titanium alloys, according to customer's specifications/drawings and national/international standards

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.

FOMAS 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:

FOMAS SPA - OSNAGO - ITALY

4. REMARKS

NEXT ASSESSMENT DUE AT RENEWAL DATE.

*** END OF CERTIFICATE ***



Marine & Offshore

Certificate number: 35493/C0 BV

File number: MAT 52857-2013

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

FOMAS SPA
OSNAGO - ITALY

for the type of product

STEEL FORGINGS

Stainless steel forgings of maximum weight 25 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: 19 Oct 2028

For Bureau Veritas Marine & Offshore,

At BV NAPOLI, on 19 Oct 2023,

Sandro BRUSEGAN

This certificate was created electronically and is valid without signature



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 :

1.1 - Austenitic-ferritic stainless steel forgings having a weight up to 14 tons. Typical products tested:

- PS Core forging made in stainless steel grade ASTM A182 F51 (Modified) or EN 10222-5 X2CrNiMoN22-5-3 (Modified) according to the specification N° 1829-APL-M-SA-001 dated 28/06/2013.
- Swivel stator 12" made in stainless steel grade ASTM A182 F51 (Modified) as per specification Ref.PTF-4299-01 Rev.02 issued by Fomas SPA.

Ingots made by electroslag remelting process (ESR). Forgings are made by open die forging. Min. reduction ratio 3:1. Forgings are solution treated followed by water quenching.

1.2 - Austenitic stainless steel forgings having a weight up to 25 tons. Typical product tested:

- Inner fix part-base plate forging made in stainless steel grade ASTM A182 F316L (Modified) according to the manufacturing program N°PTF 4886 Rev.01 dated 23/04/2018.

Ingots are supplied. Forgings are made by open die forging. Min. reduction ratio 5:1. Forgings are solution treated followed by water quenching.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Fomas SPA:

- "Technical qualification of the company" R13-Rev.02 dated 4/06/2013, R14-Rev.02 dated 14/07/2014, and, R18-Rev.04 dated 17/07/2018.
- "Quality system manual " Edition 14-A Rev.01 dated 13/11/2012 and Edition 14-A Rev.02 dated 13/12/2013.
- "Technical manufacturing program PTF 4097 Rev.B "dated 8/03/2013; "Quality plan Ref. PQ4299/1 Rev.03"dated 17/11/2014; "Technical manufacturing program PTF 4886" Rev.01 dated 23/04/2018.

3. TEST REPORTS :

3.1 - Documents issued by Fomas SPA:

- Heat treatment certificate No.140312/10 dated 09/10/2014, No.140312/20 dated 05/09/2014 and 09/10/2014
- Test reports of PS-Core #1forging dated 20/06/2013; Test reports Ref. 140312/10 dated 30/06/2014, 05/09/2014 and 18/11/2014; Ref.140312/20 dated 18/11/2014 and 19/11/2014; Report "SWL-HV Swivel forging-base plate" Ref.PQ 4886 Rev.01 dated 11/05/2018, test reports Ref.180182/20 dated 18/05/2018, 25/05/2018, 13/06/2018, 05/07/2018, 16/07/2018, 23/07/2018.

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 Fomas 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.

5.4 - For information, Fomas SPA has declared to Bureau Veritas the following production site:

Fomas SPA

Via Martiri della liberazione 17
23875 Osnago (LC) - Italy

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals from No.35493/A0 BV to No.35493/B0 BV.

*** END OF CERTIFICATE ***



Certificate number: 40878/C0 BV

File number: MAT 52857-2015

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

FOMAS SPA
OSNAGO - ITALY

for the type of product

STEEL FORGINGS

Alloy steel forgings with mass up to 32 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: 08 Jul 2030

For Bureau Veritas Marine & Offshore,

At BV NAPOLI, on 26 Nov 2025,

Alessandro Asborno

This certificate was created electronically and is valid without signature



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 intended for pressure systems made in alloy steels with maximum weight 32 tons.
No steelmaking. Remelting of semi-finished products by Electroslag remelting (ESR). Forgings are made by open die forging.
Minimum total reduction ratio of 4:1. Heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Fomas SPA:
- Drawing Ref.FI.16330 Rev.01 dated 12/11/2014.
- Procedures Ref. QCPMT350 Rev.03 and Ref.QCPUT761 Rev.02.
- "Technical manufacturing program PTF 4308 Rev.02" dated 06/08/2014, "Technical qualification of the company" dated 07/02/2020.

3. TEST REPORTS :

3.1 - As per following reports Documents:
- Inspection certificates Ref. 140313/70 dated 06/11/2014; 07/11/2014; 11/12/2014; 08/01/2015; and 23/01/2015 issued by Fomas SPA.
- Mill test certificate ACPL00949/2014 dated 26/06/2024 issued by Olifer-ACP SPA.
3.2 - Typical grade tested:
Alloy steel, quenched and tempered: Material grade ASME SA-765M Grade IV (Modified) as per specification Ref.PTF-4308 Rev.02 issued by Fomas SPA.

4. APPLICATION / LIMITATION :

4.1 - As per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.
4.2 - Chemical composition and mechanical properties requirements are to be as per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units, and/or alternative specification mentioned on reviewed drawings, as applicable.
4.3 - Semi-finished products are to be supplied by Rubiera Special Steel SPA or other steelmakers approved by the Society.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by Fomas 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.
5.4 - Semi-finished products used to manufacture forgings are to be supplied with works certificates (W).
5.5 - For information, Fomas SPA has declared to Bureau Veritas the following production site:

FOMAS SPA
VIA MARTIRI DELLA LIBERAZIONE 17
OSNAGO -LC
23875 OSNAGO
ITALY

6. MARKING OF PRODUCT :

6.1 - Each steel forging that has been tested with satisfactory results are to be marked with the following information:
- Manufacturer's name or trademark
- Bureau Veritas' Mark
- Identification marking enabling traceability, such as cast number, heat number, or batch number
- Material grade and classification
- Additional markings where applicable, such as test pressure or specific inspection references
Additional marking requirements specific to steel forgings shall be in accordance with the "Marking" article in the relevant section of Bureau Veritas NR216 Rules on Materials and Welding for the Classification of Marine Units.

7. OTHERS :

7.1 - It is Fomas SPA's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
7.2 - This certificate supersedes the Type Approval Certificate N° 40878/B0 BV issued by the Society.

*** END OF CERTIFICATE ***