



Certificate number: 21894/D0 BV

File number: MAT 48605-2009

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

Nordic Flanges AB

Själevad - SWEDEN

for the type of product

STEEL FORGINGS

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 will expire on: 16 Mar 2031

For Bureau Veritas Marine & Offshore,

At BV GOTHENBURG, on 16 Mar 2026,

Torbjorn Ygesjo

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 :

Austenitic stainless steel forgings having a weight up to 1000Kg. Typical forgings are flanges.
No steelmaking. Forgings are made by upsetting operations. Forgings are solution annealed, cooling in water.

2. DOCUMENTS AND DRAWINGS :

2.1 - As per following documentation:

- "Application for approval by BV as manufacturer of forged stainless steel flanges" issued by BAEM Nordic Flanges AB and dated 19 February 2009.
- Documentation issued by Nordic Flange AB and submitted on 10 October 2019.

3. TEST REPORTS :

3.1 - Typical grades tested are 1.4307 and 1.4404 according to EN 10222-5.

3.2 - As per following test reports:

- "Approval test program for BAEM Nordic Flanges AB" issued by BAEM Nordic Flanges AB and dated 20 March 2009.
- Test reports for grade 1.4404, Heat 500547 including Inspection certificate number NF-25-04664 dated 17 September 2025.

4. APPLICATION / LIMITATION :

4.1 - As per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.

4.2 - 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.

4.3 - Semi-finished products are to be supplied by Cogne Acciai Speciali S.p.a or other steelmakers approved by the Society.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by Nordic Flanges AB 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 - Nordic Flanges AB has to make the necessary arrangements to have its works recognized by Bureau Veritas in compliance with the requirements of NR320.

5.5 - Semi-finished products used to manufacture forgings are to be supplied with works certificates (W).

5.6 - For information, Nordic Flanges AB has declared to Bureau Veritas the following production site:

Nordic Flanges AB
Kavelvägen 17
S-894 35 Själevad
SWEDEN

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 Nordic Flanges AB'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° 21894/C0 BV issued by the Society.

*** END OF CERTIFICATE ***