



Marine & Offshore

Certificate number: 21894/C0 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**

Själövad - 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: 18 Dec 2024**

**For Bureau Veritas Marine & Offshore,**

At BV GOTHENBURG, on 18 Dec 2019,

Magne MOLLER



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](http://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 according to ASTM A182.

No steelmaking. Forgings are made by upstetting operations. Forgings are solution annealed, cooling in water.

### **2. DOCUMENTS AND DRAWINGS :**

- "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 :**

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

- "Approval test program for BAEM Nordic Flanges AB" issued by BAEM Nordic Flanges AB and dated 20 March 2009.

### **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 documents and drawings, as applicable.

### **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.

### **6. MARKING OF PRODUCT :**

As per Bureau Veritas Rules for Classification.

### **7. OTHERS :**

This certificates replaces approvals No.21894/A0 BV and No.21894/B0 BV.

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