



Marine &amp; Offshore

Certificate number: 58606/A0 BV

File number: MAT 121570-2019

Product code: 8154I

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

**FACES SPA**

Marcon (VE) - ITALY

for the type of product

**STEEL CASTINGS**

Castings made in carbon, carbon-manganese, alloy steels; austenitic and austenitic-ferritic (duplex) stainless steels

**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 Jan 2025****For Bureau Veritas Marine & Offshore,**

At BV VENEZIA, on 16 Jan 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 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 :**

Castings intended for machinery and non-welded equipment. Typical castings are body valves.  
Carbon, carbon-manganese, alloy steels of maximum weight 2500kg.  
Austenitic stainless steels castings of maximum weight 5700kg.  
Austenitic-ferritic (duplex) stainless steels castings of maximum weight 4000kg.  
Castings made in austenitic stainless steels are intended for low temperature applications.

Steelmaking by induction furnace, and AOD, as applicable. Sand casting. Heat treatment as applicable.

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

As per documents about manufacturing process submitted on November 2019 and issued by Faces SpA.

### **3. TEST REPORTS :**

3.1 - Reports issued by Faces SpA:

- Testing data issued for grade WCB -ASTM A216 - Heats No.180036, No.180043, No.180049 and dated 23 May 2018.
- Testing data issued for grade CF3 -ASTM A351 - Heats No.190143, No.190158 and dated 29 May 2019. (574Kg).
- Testing data issued for grade CF8M -ASTM A351 - Heat No.180196 and dated 11 July 2018.
- Testing data issued for grade 4A -ASTM A995 - Heats No.180237, No.1806235, No.180172 and dated 09 July 2018.

3.2 - Typical tested grades are:

- Grade WCB as per ASTM A216, Normalized and tempered, for Carbon, Carbon-Manganese steels.
- Grades CF3/CF8M as per ASTM A351, Solution annealed, for Austenitic stainless steels.
- Grade 4A as per ASTM A995, Solution annealed, for Austenitic-ferritic (duplex) stainless steels.

### **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 documents and drawings reviewed by the Society, as applicable.

### **5. PRODUCTION SURVEY REQUIREMENTS :**

- 5.1 - The castings are to be supplied by Faces 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 :**

Nil.

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