



Marine &amp; Offshore

Certificate number: 49682/A0 BV

File number: MAT 56339-2017

Product code: 20111

*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*

**Heng Yang Valin Steel Tube Co. Ltd.**  
Hengyang - CHINA

*for the type of product*

### SEAMLESS PIPES AND FITTINGS

Seamless pipes in carbon-manganese steel Gr.6 - ASTM A333 and nickel steel Gr.8- ASTM A333

#### 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: 31 Jul 2022**

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 31 Jul 2017,

Jennifer Zhang



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 :

Seamless pipes in carbon-manganese and nickel steels for low temperature service.

Steel grade	Dimensions	Delivery conditions
Grade 6 (ASTM A333)	Outside diameter from 60.3 to 88.9mm Wall thickness from 5.52mm to 7.62mm	Normalised (N)
Grade 8 (ASTM A333)	Outside diameter from 133 to 219.1mm Wall thickness from 22mm to 31.75mm	Quenched and Tempered (Q+T)

Steelmaking by EAF: Electric Arc Furnace, LF: Ladle Furnace and VD: Vacuum degassing; Continuous casting. Seamless pipes are made by piercing of billets, hot rolling and straightening operations. Hot finished pipes by normalising or quenched and tempered, as applicable.

### 2. DOCUMENTS AND DRAWINGS :

As per documents issued by Heng Yang Valin Steel Tube Co., Ltd.:  
-"BV application document (Gr.6 and Gr.8 steel pipes for low temperature service)" dated 23 January 2017.

### 3. TEST REPORTS :

As per documents issued by Heng Yang Valin Steel Tube Co., Ltd.:  
- Reports No. HYST-BV-Gr.6-φ60.3-2017-3-2 and No. HYST-BV-Gr.6-φ88.93-2017-3-2 dated 16 June 2017.  
- Reports No. HYST-BV-Gr.8-φ133-2017-3-2 and No. HYST-BV-Gr.8-φ219.1-2017-3-2 dated 16 June 2017.  
- Test records and produce records for Gr.6 and Gr.8 submitted April and July 2017.

### 4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

### 5. PRODUCTION SURVEY REQUIREMENTS :

The seamless steel pipes are to be supplied by Heng Yang Valin Steel Tube Co., Ltd. in compliance with the type and the requirements described in this certificate. This type of product is within the category IBV of Bureau Veritas Rule Note NR320. BV product certificate is required.

### 6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

### 7. OTHERS :

Nil.

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