



Marine &amp; Offshore

Certificate number: 49811/A0 BV

File number: ACM 135/2210/007

Product code: 2170H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**Viega Technology GmbH & Co. KG**

Attendorn - GERMANY

*for the type of product*

**PIPE COUPLING WITH O-RING SEAL**

PRESTABO PRESS-FITTING SYSTEM

### Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships

*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 Jun 2022**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 16 Jun 2017,

Adama Diene



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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

#### **PRESTABO Press-fitting System**

##### **1.1 Design:**

- Carbon steel cold press system
- Galvanized Carbon steel pipes and Press-fittings with O-ring seal
- An SC-Contour on the fittings provides a visual indication of a non-pressed fitting.

##### **1.2 Range:**

<b>Diameter</b>	12 mm to 108 mm
<b>Nominal Pressure</b>	1.6 MPa
<b>Temperature range</b>	-20°C to +110°C

##### **1.3 Materials:**

Tubes: Externally and complete galvanized, Carbon steel

Fittings: Specially shaped galvanized fittings sealed with O-ring, Carbon steel, Zinc coating only outside

O-ring: EPDM, HNBR or FKM (depending on the working temperature of the concerned media).

### 2. DOCUMENTS AND DRAWINGS

- 2.1 Manufacturer's catalogue / F1: Prestabo Reference DE 1/16 . Katalog 2016.
- 2.2 Test reports N° 120003804-1
- 2.3 Test certificates N° 101645 and 101646
- 2.4 Test certificate N° 014-11.

### 3. TEST REPORTS

3.1 Qualification tests performed in MPA' s laboratory in Dortmund / GERMANY:

- Tightness test
- Vibration test
- Vacuum test

Test report N° 120003804-1

3.2 Fire resistance tests performed at IHA' s laboratory in Dresden-Weixdorf / GERMANY:

Test certificate N° 014-11

3.3 Fire resistance tests performed at PHOENIX' s laboratory in Hamburg / GERMANY:

Test certificates N° 101645 and 101646

3.4 Burst Pressure test performed in the Manufacturer` s premises, witnessed on 20/04/2011

3.5 Audit tests including Pull out test performed in the Manufacturer` s premises, witnessed on 25/08/2011.

### 4. APPLICATION / LIMITATION

4.1 May be used on board for services of class III piping systems:

- Domestic warm water heating
- Cooling water systems
- Service air (non-essential)
- Sprinkler systems
- Non essential systems
- Flammable oil systems
- Cargo oil lines
- Fuel oil lines
- Inert gas system

4.2 The sealing material must be suitable for the intended services.

4.3 Assembly instructions given by the manufacturer are to be complied with.

4.4 In all cases, the associated pipes are to be suitably supported and anchored. The joints are to be at any time accessible, excepting inside tanks where permitted by the BUREAU VERITAS Rules.

4.5 The use of Prestabo pipe fittings for combustible media is to be restricted on case by case ship basis and only for fire safe

types.

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

5.1 The Pipe couplings are to be supplied by the manufacturer in compliance with the type described in this certificate.

5.2 This type of product is within the category HBV of BUREAU VERITAS Rule Note NR320.

5.3 **Viega Technology GmbH & Co. KG** has to make the necessary arrangements to have its works recognised by BUREAU VERITAS in compliance with the requirements of NR320 for HBV products:

**Viega Technology GmbH & Co. KG**

**Attendorn, GERMANY.**

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

The Pipe couplings are to be clearly identified with at least:

- Manufacturer's name or logo
- Type designation
- Size
- Nominal Pressure

#### **7. OTHERS**

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the products at any time and that **Viega Technology GmbH & Co. KG, Attendorn / GERMANY** will accept full responsibility for informing shipbuilders, ship owners or their sub-contractors of the proper methods of use and general maintenance of the products and of the conditions of this approval.

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