



Marine & Offshore

Certificate number: 49811/B0 BV

File number: ACM 135/2210/7

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 GmbH & Co. KG

Attendorn - GERMANY

for the type of product

MECHANICAL JOINTS - COMPRESSION COUPLINGS - PRESS TYPE

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 is a renewal of certificate N° 49811/A0 BV expiring on 16/06/2022

This certificate will expire on: 16 Jun 2027

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 11 Feb 2022,

Udo Storm



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.

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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:

Diameter	12 mm to 108 mm
Nominal pressure	1.6 MPa
Temperature range	-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 Manufacturer's drawings attached to following test reports no.:

120003804-1

101645

101646

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 is to be compatible with the fluid to be conveyed and the maximum working temperature.
- 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 fittings are to be supplied by **Viega GmbH & Co. KG** 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 and as such does not require a BUREAU VERITAS product certificate.
- 5.3 **Viega 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.
- 5.4 For information, **Viega GmbH & Co. KG** has declared to BUREAU VERITAS the following production site:
Viega GmbH & Co. KG, Attendorn / GERMANY

6. MARKING OF PRODUCT:

Each fitting is to be clearly marked with at least:

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

7. OTHERS:

- 7.1 It is **Viega GmbH & Co. KG**'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° 49811/A0 BV issued on 16 Jun 2017 by the Society.

*** END OF CERTIFICATE ***