



Marine & Offshore

Certificate number: 49810/A0 BV

File number: ACM 135/2210/006

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

MEGAPRESS 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. 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

MEGAPRESS Press-Fitting System

1.1 Design:

- Carbon steel cold press system
- Press-fittings with O-ring seal
- The crimping is achieved with a special crimping tool
- An SC-Contour on the fittings provides a visual indication of a non-pressed fitting.

1.2 Range:

Nominal Diameter	DN15 to DN50
Nominal Pressure	1.6 MPa
Temperature range	-20°C to +110°C

1.3 Materials:

Tubes: Zinc plated, industrially painted, powder coated Black carbon steel

Fittings: Specially shaped galvanized fittings (Zinc-Nickel coating)

O-ring: EPDM

2. DOCUMENTS AND DRAWINGS

2.1 Manufacturer's catalogue / F2: Megapress Reference DE 1/16 . Katalog 2016.

2.2 Test reports N° 120003993-e, 006-12, 007-12, 088-12 and 001-13.

3. TEST REPORTS

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

- Tightness test
- Vibration-/ Pressure pulsation test
- Burst pressure test
- Pull-out test
- Vacuum test

Test report N° 120003993-e

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

Test reports N° , 006-12, 007-12, 088-12 and 001-13.

4. APPLICATION / LIMITATION

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

- Domestic fresh water
- 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 Megapress 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 ***