

**MARINE DIVISION**

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Certificate number: 12841/B0 BV

File number : ACM 135/2210/004

Product code : 2170H

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

**TYPE APPROVAL CERTIFICATE**

*This certificate is issued to*

**VIEGA Franz Viegner II GmbH and Co KG**

Attendorn - GERMANY

*for the type of product*

**PIPE COUPLING WITH O-RING SEAL**

VIEGA Seapress system

**Regulations and standards :**

- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Offshore Units
- IACS UR P2.11 (Nov. 2001)

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.*

**This certificate is valid until : 23 Feb 2014**

At Neuilly, on : 23 Feb 2009

**For BUREAU VERITAS,**  
By order of the Secretary

Approval office

Local office : BV HAMBURG  
Surveyor : J. Bauermeister

L.COURREGELONGUE



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. 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 Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS 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

VIEGA Seapress system

1.1 Design (compression couplings, press type)

- Pipes and fittings made of CuNiFe
- A SC-Contur (safety connection) is provided for visible testing security
- The crimping is achieved with a special crimping tool

1.2 Range

Size (mm)	15 to 108
Pipe O.D.xWall thickness (mm)	15x1.0; 22x1.0; 28x1.5; 35x1.5; 42x1.5; 54x1.5; 76.1x2.0; 88.9x2.0; 108x2.5
Max. Working Pressure	13 bar for dimensions (mm) 15 to 54 16 bar for dimensions (mm) 76,1, 88,9 and 108
Temperature Range (°C)	-20/120

1.3 Raw Material

Tubes	CuNi10Fe1,6Mn according to DIN 86019
Fittings	CuNi10Fe1,6Mn according to DIN 86019
O-ring	EPDM / FKM / HNBR

### 2. DOCUMENTS AND DRAWINGS

- Manufacturer's catalogue
- Technical specification
- K 5/2004 Viega Seapress system brochure with a SC-Contur
- Operational and installation guidelines

### 3. TEST REPORTS

3.1 Qualification tests performed in MPA' s laboratory: Assembly test, tightness test, vibration test, burst test, pull-out test, fire endurance test and vacuum test.

3.2 Test reports N° 120001518-11 and N° 120001976.

### 4. APPLICATION / LIMITATION

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

- Flammable fluids (flash point >60°C): cargo oil, lubricating oil, hydraulic oil, thermal oil lines
  - Inert gas: water seal/scrubber effluent, main/distributions lines
  - Sea water: bilge/ballast/cooling water, fire main/water spray/foam/sprinkler systems, tank cleaning/non-essential lines
  - Fresh water: cooling water, condensate return, non-essential lines
  - Deck drains (internal), sanitary drains, scupper and discharge (overboard)
  - Sounding and venting: water tanks/dry spaces, oil tanks (flash point >60°C)
  - Miscellaneous: control air, service air (non-essential), brine, air conditioning systems, non essential systems
- 4.2 The selection of pipes, fittings and O-rings must be compatible with the fluid to be conveyed and the maximum working temperature according to the manufacturer's recommendations.
- 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.

### 5. PRODUCTION SURVEY REQUIREMENTS

5.1 The products are to be manufactured, examined and tested by the manufacturer in accordance with the approved type described in this certificate and Bureau Veritas Rules and Regulations stated on the front page of this certificate.

5.2 Production sites are to be recognized by Bureau Veritas as per NR 320 for HBV products. To this end, the manufacturer has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 The manufacturer has declared to Bureau Veritas that the products detailed in this certificate are manufactured at the production site stated on the front page of this certificate.

5.4 Bureau Veritas certificate is not required for the product to be fitted on board units to be classed with Bureau Veritas.

**6. MARKING OF PRODUCT**

Each fitting is to be clearly marked with at least:

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

**7. OTHERS**

7.1 This approval is given with the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the product and of the conditions of this approval.

7.2 This certificate supersedes the Type Approval Certificate N° 12841/A1 BV issued on 04/11/2004 by the Society.

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