

MARINE DIVISION

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Certificate number: 08683/C0 BV

File number : ACM 135/2210/002

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 sanpress system and VIEGA sanpress INOX 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 sanpress system and VIEGA sanpress-INOX system

1.1 Design (compression couplings, press type)

- Thin walled pipes made of stainless steel pipes and copper pipes
- Fittings made of stainless steel (up to O.D. 54 mm) and tinned gun metal with a synthetic sealing element
- SC-Contur (safety connection) for visible testing security
- The crimping is achieved with a special crimping tool

1.2 Range

Type	Sanpress Inox	Sanpress
Pipe O.D.xWall thickness (mm)	15x1.0; 18x1.0; 22x1.2; 28x1.2; 35x1.5;42x1.5; 54x1.5; 64x2.0; 76.1x2.0; 88.9x2.0; 108x2.0	12 to 108
Max. Working Pressure (bar)	16	16
Max. Working Temperature (°C)	95	95

1.3 Raw Material

Tubes	Stainless steel acc. to DIN 17455, AISI 316 (1.4401) / Copper acc. to DIN 1786, NF A 51.120 or equivalent
Fittings	Stainless steel acc. to DIN 17455, AISI 316 (1.4401) / Gun metal G-CuSn7ZnPb acc. to DIN 1705
O-ring	EPDM / FPM/FKM / HNBR

2. DOCUMENTS AND DRAWINGS

- Manufacturer's catalogue
- Technical specification
- Viega sanpress INOX system brochure (with SC-Contur)
- Viega sanpress INOX XL system brochure
- Operational and installation guidelines

3. TEST REPORTS

3.1 Qualification tests performed in MPA' s laboratory: Assembly test, static pressure test, impulse test, vibration test, flame resistance test, burst test, torque test, bending test and vacuum test

3.2 Test reports N° 12 0587 5 97 and N° 12001070-2. Test specimen DN 65, DN 80 and DN 100.

4. APPLICATION / LIMITATION

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

- Domestic fresh water, domestic warm water heating, fresh water cooling, service air (non-essential), wet sprinkler, non essential systems.

4.2 The sealing material must 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 sanpress pipe fittings for combustible media is to be restricted on case by case ship basis.

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° 08683/B0 BV issued on 16/06/2003 by the Society.

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