



Certificate number: 08683/F1 BV

File number: ACM 135/2210/2

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**

VIEGA SANPRESS SYSTEM and VIEGA SANPRESS INOX SYSTEM

**Requirements:**

BUREAU VERITAS Rules for the Classification of Steel Ships

BUREAU VERITAS Rules for the Classification of Offshore Units

*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: 28 Feb 2029**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 12 Mar 2026,

Heiko Lange

***This certificate was created electronically and is valid without signature***



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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This certificate consists of 4 page(s)

## 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. x wall 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:

<b>Tubes</b>	Stainless steel acc. to DIN EN 10312, AISI 316L (1.4401) / 1.4521 acc. to DIN EN 10088 Copper acc. to DIN EN 1057, NF A 51.120 or equivalent
<b>Fittings</b>	Stainless steel acc. to DIN EN 10312, AISI 316L (1.4401) / 1.4521 acc. to DIN EN 10217-7 CuSn5Zn5Pb2-C (C499K) / CuSi4Zn9MnP-C (CC246E), CuSi4Zn9MnP acc. to DIN EN 1982
<b>O-ring</b>	EPDM / FPM/FKM / HNBR

### 2. DOCUMENTS AND DRAWINGS:

According to the following document:

Document no.	Rev.	Designation
DE 1/18	Katalog 2018	Manufacturer's catalogue: Sanpress Inox Rohrleitungstechnik

### 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 No 12001070-2. Test specimen DN 65, DN 80 and DN 100.
- 3.3 Fire resistance test, test report no.: 804693, performed at PHOENIX Compounding Technology GmbH, Hamburg / Germany dd. 25.09.2009, witnessed by an IACS member.
- 3.4 Burst pressure test, performed at MPA NRW Dortmund / GERMANY, dd. 18.09.2008
- 3.5 Vibration test, pressure pulsation test and vacuum test, test report no.: 120003724-2, performed at MPA NRW Dortmund / GERMANY, dd. 15.12.2011

### 4. APPLICATION / LIMITATION:

- 4.1 These couplings are used as compression type couplings only.
- 4.2 The couplings may be used for class III piping systems. The application of the couplings and their acceptable use for each service is indicated in the table below.

## Application:

<b>Flammable fluids (flash point <math>\leq 60^{\circ}\text{C}</math>)</b>	
Cargo oil lines	(1)
Crude oil washing lines	(1)
Vent lines	(3)

<b>Inert gas</b>	
Water seal effluent lines	
Scrubber effluent lines	
Main lines	(1)
Distribution lines	(1)

<b>Flammable fluids (flash point <math>&gt; 60^{\circ}\text{C}</math>)</b>	
Cargo oil lines	(1)
Fuel oil lines	(3)
Lubricating oil lines	(3)
Hydraulic oil	(3)
Thermal oil	(3)

<b>Fresh water</b>	
Cooling water system	(4)
Condensate return	(4)
Non-essential systems	

<b>Sanitary/Drains/Scuppers</b>	
Deck drains (internal)	(5)
Sanitary drains	
Scuppers and discharge (overboard)	

<b>Sounding/Vent</b>	
Water tanks/Dry spaces	
Oil tanks (flash point $> 60^{\circ}\text{C}$ )	(3)

<b>Miscellaneous</b>	
Service air (non-essential)	
Brine	
Steam	

**Footnotes:**

(1): Fire endurance test is to be applied when mechanical joints are installed in pump rooms and open decks.

(3): Approved fire resistant types except in cases where such mechanical joints are installed on exposed open decks, as defined in BV Rules Ch 4, Sec 5, [1.4.3] item b) 2) (10), and not used for fuel oil lines.

(4): Fire endurance test is to be applied when mechanical joints are installed inside machinery spaces of category A.

(5): Only above bulkhead deck of passenger ships and freeboard deck of cargo ships.

- 4.3 The wall thickness and the material of the tubes are to be in accordance with the applicable BUREAU VERITAS Rules.
- 4.4 The use of stainless steel is to be restricted as per the requirements of the BUREAU VERITAS Rules.
- 4.5 The sealing/packing material must be compatible with the fluid to be conveyed and the maximum working temperature.
- 4.6 Assembly instructions given by the manufacturer are to be complied with.
- 4.7 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.
- 4.8 The approval does not cover any pipes penetration through watertight bulkheads and fire divisions.
- 4.9 Not approved for seawater applications.
- 4.10 The use of the Sanpress system for combustible media is to be restricted on case by case ship basis.

**5. PRODUCTION SURVEY REQUIREMENTS:**

- 5.1 The fittings are to be supplied by **Viega GmbH & Co. KG** in compliance with the type and the requirements 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 sites:  
**Viega Manufacturing GmbH & Co. KG, Großheringen / GERMANY**  
**Viega Manufacturing GmbH & Co. KG, Attendorn-Ennest / GERMANY**

**6. MARKING OF PRODUCT:**

Each fitting is to be clearly marked with at least:

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

**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° 08683/F0 BV issued on 29 Feb 2024 by the Society.

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