



Marine & Offshore

Certificate number: 08682/F1 BV

File number: ACM 135/2210/1

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 PROFIPRESS 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: 18 Mar 2029

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 26 Apr 2024,

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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BV Mod. Ad.E 530 June 2017

This certificate consists of 4 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

VIEGA Profipress system

1.1 Design:

- Compression couplings, press type
- Thin walled copper pipes and fittings with a synthetic sealing element
- The crimping is achieved with a special crimping tool

1.2 Range:

Size [mm]	12 to 108
Pipe O.D. x wall thickness [mm]	12x1.0; 15x1.0; 15x1.5; 18x1.0; 18x1.5; 22x1.0; 22x1.5; 28x1.5; 35x1.5; 42x1.5; 54x2.0; 64x2.0; 76.1x2.0; 88.9x2.0; 108x2.5 Pipes according to DVGW GW 392
Max. working pressure [bar]	16
Max. working temperature [°C]	95

1.3 Raw material:

Tubes	Copper acc. to DIN EN 1057, NF A 51.120 or equivalent
Fittings	Copper SF-CU acc. to DIN EN 1057, CuSn5Zn5Pb2-C (C499K) / CuSi4Zn9MnP-C (CC246E), CuSi4Zn9MnP acc. to DIN EN 1982
O-ring	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: Profipress 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 report n° 12 0197 0 98. Test specimen DN 65, DN 80 and DN 100.
- 3.3 Test report n° 120004725. Tests performed on 23/04/2015 at MPA NRW, Dortmund / GERMANY.
- 3.4 Test report n° 120004599-2E. Tests performed according to IACS Requirements on 28/01/2016 at MPA NRW, Dortmund / GERMANY.
- 3.5 Test report n° 122000624-01-PB dd. 13.02.2024 performed at MPA NRW, Dortmund / GERMANY, witnessed by an IACS member.

4. APPLICATION / LIMITATION:

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

Application:

Flammable fluids (flash point ≤ 60°C)	
Cargo oil lines	(1)
Crude oil washing lines	(1)
Vent lines	(3)

Inert gas	
Water seal effluent lines	
Scrubber effluent lines	
Main lines	(1)(2)
Distribution lines	(1)

Flammable fluids (flash point > 60°C)	
Cargo oil lines	(1)
Fuel oil lines	(2)(3)
Lubricating oil lines	(2)(3)
Hydraulic oil	(2)(3)
Thermal oil	(2)(3)

Sea water	
Bilge lines	(4)
Water filled fire extinguishing systems, e.g. sprinkler systems	(3)
Non water filled fire extinguishing systems, e.g. foam, drencher systems	(3)
Ballast systems	(4)
Cooling water system	(4)
Tank cleaning services	
Non-essential systems	

Fresh water	
Cooling water system	(4)
Condensate return	(4)
Non-essential systems	

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

Sounding/Vent	
Water tanks/Dry spaces	
Oil tanks (flash point > 60°C)	(2)(3)

Miscellaneous	
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.

(2): Slip on joints are not accepted inside machinery spaces of category A or accommodation spaces. May be accepted in other machinery spaces provided the joints are located in easily visible and accessible positions.

(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.

- 4.2 The wall thickness and the material of the tubes are to be in accordance with the applicable BUREAU VERITAS Rules.
- 4.3 The sealing/packing material must be compatible with the fluid to be conveyed and the maximum working temperature.
- 4.4 Assembly instructions given by the manufacturer are to be complied with.
- 4.5 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 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 site:
Viega GmbH & Co. KG, Großheringen / 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° 08682/F0 BV issued on 18 Mar 2024 by the Society.

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