



Lloyd's  
Register

## Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.*

This certificate supersedes certificate number 96/20048 (E5) issued on 11.08.2016 which is hereby cancelled.

This certificate is issued to:

<b>PRODUCER</b>	Viega Technology GmbH & Co. KG Viega Platz 1 57439 Attendorn Germany
<b>DESCRIPTION</b>	Copper and copper alloy fittings and pipe system with SC-Contur. The SC feature enables to quickly identify unpressed fittings. The fittings are offered with different sealing elements – EPDM, HNBR and FKM. The press connection is performed by a special press tool.
<b>TYPE</b>	Viega-ProfiPress – System, ProPress & ProPress XL
<b>APPLICATION</b>	As piping components in Class III piping systems on ships classed or intended for Classification with Lloyd's Register. <u>Restrictions:</u> <ol style="list-style-type: none"><li>1. Starting/control air and CO2 systems.</li><li>2. Inside machinery spaces of category A or accommodation spaces for main lines of inert gas systems.</li><li>3. Fire main, water spray or sprinkler systems which are not always filled with water.</li><li>4. Bilge lines in high fire risk compartments</li><li>5. Scupper pipes below freeboard deck over board</li></ol> For deck and bulkhead penetrations see also the requirements of the National Authorities.

<b>Certificate No.</b>	96/20048 (E6)
<b>Issue Date</b>	27 July 2017
<b>Expiry Date</b>	14 June 2021
<b>Sheet</b>	1 of 2



Torsten Schröder  
Hamburg Technical Support Office  
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<b>RATINGS</b>	Pipe O.D.: 12 mm to 108 mm and 1/2" to 4" MAWP: 1,6 MPa at MAWT: -20°C to 120°C ProPress XL only in copper, Viega-ProfiPress – System and ProPress in copper and alloy CC499K, CC246E and CuSi4Zn9MnP
<b>STANDARDS</b>	IACS P 2.11 including wet fire endurance test, DVGW, Lloyd's Register Rules and Regulation for the Classification of Ships, 2016
<b>PLACE OF PRODUCTION</b>	Viega Supply Chain GmbH & Co. KG Viegastrasse 1 99518 Großheringen Germany

*The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.*

*The Design Appraisal Document No. HMD 6910-01, Issue No. 4 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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# Design Appraisal Document

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Date  
27 July 2017

Please quote this reference number on all future communications  
HPC 1661005/36416-17/TS

**THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2014  
ISSUED TO: VIEGA TECHNOLOGY GMBH & CO. KG  
FOR: VIEGA-Profipress-System, ProPress & ProPress XL  
TYPE APPROVAL CERTIFICATE NO. 96/20048 (E6)**

*Please note that DAD Issue Number 3 is superseded hereby*

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register's Type Approval System Procedure TA14 and this Design Appraisal Document forms part of the Certificate.

## COMMENTS

1. The manufacturer's list of the chemical resistance of piping components is to be observed.
2. For essential systems as required by the Rules the manufacturer's material certificate may be acceptable.
3. The pipe dimensions are to be in compliance with Part 5, Chapter 12, Section 3 of the Rules.
4. Copper pipes are particularly susceptible to perforation by corrosion/erosion and should only be used for low water velocities and where there is no excessive local turbulence.

## APPROVAL DOCUMENTATION

Form2502TA	Application Checklist	22.01.2016
--	Set of dimension drawings for ProPress fittings	--
ESD/HMD 9800364 T	Design Appraisal Document	10.09.1998
438531-00.918.0111/00	Viega Brochure	--
DW-8511AP3139	Certificate for a DVGW test mark	12.03.2001
13 7383 00	Certificate DIN ISO 9001:1994	07.02.2001
00042 S	Crimp- SC (re-shaped Pressfittings)	--
00043 S	Crimp- SC (machined Pressfittings)	--
14	Catalogue Systemtechnik `profipress`mit SC-Contur (18 pages)	--

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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## TEST REPORTS

HPC1661005/B 120004725	Production Quality Assessment at production facilities (Viega in Großheringen) Test Report by MPA NRW for press-system made of copper alloy CuZn10Si4MnP-C in combination with copper pipes acc. IACS P 2.11 Tightness, vibration / pressure pulsation test, burst pressure, pull-out and vacuum test with appendix of sectional drawings	08.06.2016 28.01.2016
120003773-1	Test Report by MPA NRW for ProPress-system 1/2" to 4" in combination with copper pipes acc. IACS P 2.11 Tightness, burst pressure and vacuum test	19.05.2011
120002578-1	Test Report by MPA NRW (Profipress XL Pressfitting-system in combination with copper pipes) (acc. IACS P 2.11)	17.02.2006



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### Supplementary Type Approval Terms and Conditions

*Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.*

*Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.*

*Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.*

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Part 1

Subject: Pipe Fittings

Product: Compression Fittings

Description of Product				Cert. No.
Producer/Licence No.	Type	Details of Approval	Application	
<p>Viega Technology GmbH &amp; Co. KG Viega Platz 1 57439 Attendorn Germany</p>	<p>Viega- Profipress- System, ProPress &amp; ProPress XL</p>	<p>Copper and copper alloy fittings and pipe system with SC-Contur. The SC feature enables to quickly identify unpressed fittings. The fittings are offered with different sealing elements - EPDM, HNBR and FKM. The press connection is performed by a special press tool.</p> <p>Ratings: Pipe O.D.: 12 to 108 mm and 1/2" to 4" MAWP: 1,6 MPa MAWT: -20°C to 120°C</p> <p>ProPress XL only in copper, Viega-ProfiPress - System and ProPress in copper and alloy CC499K, CC246E and CuSi4ZnMnP</p>	<p>As piping components in Class III piping systems on ships classed or intended for Classification with Lloyd's Register.</p> <p><u>Restrictions:</u></p> <ol style="list-style-type: none"> <li>1. Starting/control air and CO2 systems.</li> <li>2. Inside machinery spaces of category A or accommodation spaces for main lines of inert gas systems.</li> <li>3. Fire main, water spray or sprinkler systems which are not always filled with water.</li> <li>4. Bilge lines in high fire risk compartments</li> <li>5. Scupper pipes below freeboard deck over board</li> </ol> <p>For deck and bulkhead penetrations see also the requirements of the National Authorities.</p>	<p>Expires: 14 June 2021</p>
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