

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 is issued to:

PRODUCER	Viega Technology GmbH & Co. KG Viega Platz 1 57439 Attendorn Germany
DESCRIPTION	Non-alloyed steel (according to DIN EN 10305-3) press fittings with two system pipe versions. 1. Non-alloyed steel pipe according to DIN EN 10305-3 outer zinc coated. 2. Non-alloyed steel pipe according to DIN EN 10305 outer zinc coated and with plastic polypropylene in white (RAL 9001). The SC feature enables to quickly identify unpressed fittings. The fittings are offered with an EPDM, HNBR or FKM sealing element. The press connection is performed by a special press tool.
TYPE	Viega Prestabo System
RATINGS	MAWP: 1.6 MPa for sizes 12 mm to 108 mm Temp. Range: -20°C to 120°C Pipe sizes (mm): 12x1.2; 15x1.2; 18x1.2; 22x1.5; 28x1.5; 35x1.5; 42x1.5; 54x1.5; 64x2.0; 76.1x2.0; 88.9x2.0; 108x2.0
APPLICATION	As piping components in non-essential piping systems on ships classed or intended for Classification with Lloyd's Register. For deck and bulkhead penetrations see also the requirements of the National Authorities.
STANDARDS	IACS P 2.11 (pressure pulsation test size 15 only), Lloyd's Register Rules and Regulations for Classifications of Ships, 2017.

Certificate No.	12/20023 (E1)
Issue Date	01 March 2018
Expiry Date	21 June 2022
Sheet	1 of 2



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**PLACE OF
PRODUCER**

Viega Supply Chain GmbH & Co. KG
Viega Strasse 1
99851 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. ENS 28009-12; Issue No. 1, dated 01 March 2018 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 12/20023 (E1)
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Sheet 2 of 2



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Part 1
Subject: Pipe Fittings
Product: Compression Fittings

Producer/Licence No.		Description of Product			Cert. No.
Type	Details of Approval	Application	Remarks		
<p>ViEGA Technology GmbH & Co. KG ViEGA Platz 1 57439 Attendorn Germany</p>	<p>Non-alloyed steel (according to DIN EN 10305-3) press fittings with two system pipe versions. 1. Non-alloyed steel pipe according to DIN EN 10305-3 outer zinc coated. 2. Non-alloyed steel pipe according to DIN EN 10305 outer zinc coated and with plastic polypropylene in white (RAL 9001). The SC feature enables to quickly identify unpressed fittings. The fittings are offered with an EPDM, HNBR or FKM sealing element. The press connection is performed by a special press tool.</p> <p>Ratings: MAWP: 16 bar for sizes 12 mm to 108 mm Temp. Range: - 20°C to 120°C Pipe sizes (mm): 12x1.2; 15x1.2; 18x1.2; 22x1.5; 28x1.5; 35x1.5; 42x1.5; 54x1.5; 64x2.0; 76.1x2.0; 88.9x2.0; 108x2.0</p>	<p>As piping components in non-essential piping systems on ships classed or intended for Classification with Lloyd's Register. For deck and bulkhead penetrations see also the requirements of the National Authorities.</p>	<p>Expires: 21 June 2022</p>	<p>12/20023(E1)</p>	



Design Appraisal Document

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Date
01 March 2018

Please quote this reference number on all future communications
HPC1761054/37331-17/TS

**THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2014
ISSUED TO: VIEGA TECHNOLOGY GMBH & CO. KG
FOR: VIEGA - PRESTABO - SYSTEM
TYPE APPROVAL CERTIFICATE NO. 12/20023(E1)**

Please note that DAD Issue Number 0 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.

TEST REPORTS

120004946	Complementary tests acc. IACS P2.11.5 for Prestabo press-fitting system pipe size 15 mm x 1,2 mm acc. DIN EN 10305-3 (tightness, vibration/pressure pulsation, burst pressure, pull-out and vacuum test) including dimensional drawings conducted at test laboratory MPA NRW	07.03.2017
HPC1661005/B	Production Quality Assessment at production facilities (Viega in Großheringen)	08.06.2016
DTM 1270565	LR-Visit Report - Inspection and surveillance of production facilities (Großheringen)	28.02.2012
-	In-house test acc. IACS P2 (tightness, pull out and burst pressure test) for Prestabo / XL press fitting system carbon steel with zinc coating for sizes 12 to 108 mm	20.04.2011
101645	Fire resistance test subject to ISO 19921 for type Prestabo DN 15 at Phoenix Compounding Technology GmbH in Hamburg	28.04.2011
101646	Fire resistance test subject to ISO 19921 for type Prestabo DN 50 at Phoenix Compounding Technology GmbH in Hamburg	28.04.2011
014-11	Fire resistance test of pipe components subject to ISO 19921 for type Prestabo DN 100 at Internationale Hydraulik Akademie GmbH in Dresden	05.07.2011
120003804-1	Prototype test acc. IACS P2.11.5 for Prestabo press-fitting system with pipes acc. DIN EN 10305-3 sizes 12 to 108 mm (tightness, vibration and vacuum test) including dimensional drawings	03.08.2011

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

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APPROVAL DOCUMENTATION

- Application Checklist – Appendix to Form 2502TA/2502 TA MR 10.07.2017
- F1 Prestabo compression pipe system with SC feature – catalogue 2012



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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.

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