



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 14/20020 (E1) issued on 12.01.2016 which is hereby cancelled.

This certificate is issued to:

PRODUCER	Viega Technology GmbH & Co. KG Viega Platz 1 57439 Attendorn Germany
DESCRIPTION	Megapress is a black steel piping system with SC-feature. The SC feature enables to quickly identify unpressed fittings. The press connection is performed by a special press tool. The fittings are offered with EPDM or HNBR sealing element.
TYPE	Viega Megapress
APPLICATION	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"> 1. Starting/control air and CO2 systems. 2. Inside machinery spaces of category A or accommodation spaces for main lines of inert gas systems. 3. Fire main, water spray or sprinkler systems which are not always filled with water. 4. Bilge lines in high fire risk compartments 5. Scupper pipes below freeboard deck over board 6. EPDM sealing is not suitable for most of oily fluids

Certificate No.	14/20020 (E2)
Issue Date	26 April 2017
Expiry Date	22 April 2019
Sheet	1 of 2



LR0311.2016.06

Torsten Schröder
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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STANDARDS	IACS P 2.11 including wet fire endurance test, LR Rules and Regulations for the Classification of Ships, 2016.
RATINGS	Dimensions: DN 10 to DN 50 (incl. 44,5 and 57 mm) MAWP: 16 bar, MAWT: 110° C
OTHER CONDITIONS	For deck and bulkhead penetrations see also the requirements of the National Authorities. Selection and installation to be in accordance with the producer's instructions and recommendations.
PLACE OF PRODUCTION	Viega Supply Chain GmbH & Co. KG Viegastrasse 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. HTS/ENS 30687-14, Issue No.2, dated 26.04.2017 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	14/20020 (E2)
Issue Date	26 April 2017
Expiry Date	22 April 2019
Sheet	2 of 2

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



LR031-1-2016-06

Torsten Schröder
Hamburg Technical Support Office
Lloyd's Register EMEA

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Design Appraisal Document

Lloyd's Register EMEA
Hamburg Technical Support Office
Am Sandtorkai 41
20457 Hamburg
Telephone +49 (0)40 328107-0 Fax +49 (0)40 328107-480
E-mail: hamburg-technical-support@lr.org

Date
26 April 2017

Please quote this reference number on all future communications
HPC1561113/35991-17/TS

**THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2014
ISSUED TO: VIEGA TECHNOLOGY GMBH & CO. KG
FOR: VIEGA MEGAPRESS
TYPE APPROVAL CERTIFICATE NO. 14/20020 (E2)**

Please note that DAD Issue Number 1 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. Materials for Class III piping systems are to be manufactured and tested in accordance with the requirements of acceptable national specifications. The manufacturer's test certificate (3.1) will be acceptable and is to be provided for each consignment of material.

APPROVAL DOCUMENTATION

Form 2571	Application form for Type Approval	18.11.2013
566320	Data sheet Megapress (22 pages)	-
-	Set of dimension drawings for Megapress (enclosure to test report 120003993)	30.07.2012
-	Catalogue Piping system F2 Megapress with SC-Contur (8 pages)	-

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

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Lloyd's Register EMEA
Hamburg Technical Support Office
Am Sandtorkai 41
20457 Hamburg
Telephone +49 (0)40 328107-0 Fax +49 (0)40 328107-480
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TEST REPORTS

HPC 1310270, HPC1661005 120004876	LR-Visit Report - Inspection and surveillance of production facilities , PQA (Großheringen) Test Report by MPA NRW Dortmund for "Megapress with SC-Contur" press fittings made of carbon steel sizes 44.5 mm and 57 mm in combination with carbon steel pipes acc. IACS P 2.11: tightness, burst pressure, pull-out and vacuum test incl. appendix of sectional drawings)	04.02.2014, 08.06.2016 25.10.2016
-	Viega test report for Megapress carbon steel system size 3/8" acc. IACS P 2.11: tightness, burst pressure, pull-out and vacuum test	06.10.2015
001-13 to 003-13	Fire endurance test according ISO 19921 under wet conditions at IHA International Hydraulic Academy Dresden for Megapress piping components with HNBR sealing sizes DN 15, DN 25 and DN 50	03.01.2013
120003993	Test Report by MPA NRW for Megapress carbon steel pressfitting-system 1/2 – 2" acc. IACS P 2.11: tightness, vibration and pressure pulsation in combination, burst pressure, pull-out and vacuum test (incl. enclosure of sectional drawings)	30.07.2012
006-12 to 008-12	Fire endurance test according ISO 19921 under wet conditions at IHA International Hydraulic Academy Dresden for Megapress piping components with EPDM sealing sizes DN 15, DN 25 and DN 50	09.07.2012



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Torsten Schröder
Senior Specialist
Engineering Systems
Hamburg Technical Support Office
Lloyd's Register EMEA
T +49 (0)40 328107-463
E torsten.schroeder@lr.org

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Lloyd's Register EMEA
Is a member of Lloyd's Register group

Lloyd's Register EMEA
Hamburg Technical Support Office
Am Sandtorkai 41
20457 Hamburg
Telephone +49 (0)40 328107-0 Fax +49 (0)40 328107-480
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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

Producer/Licence No.		Description of Product			Cert. No.
Type	Details of Approval	Application	Remarks		
Viega Technology GmbH & Co. KG Viega Platz 1 57439 Attendorn, Germany	Type Viega Megapress Megapress is a black steel piping system with SC-feature. The SC feature enables to quickly identify unpressed fittings. The press connection is performed by a special press tool. The fittings are offered with EPDM or HNBR sealing element. <u>Ratings:</u> Dimensions: DN 10 to DN 50 (incl. 44,5 and 57 mm) MAWP: 16 bar, MAWT: 110° C <u>Other Conditions:</u> For deck and bulkhead penetrations see also the requirements of the National Authorities. Selection and installation to be in accordance with the producer's instructions and recommendations.	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"> 1. Starting/control air and CO2 systems. 2. Inside machinery spaces of category A or accommodation spaces for main lines of inert gas systems. 3. Fire main, water spray or sprinkler systems which are not always filled with water. 4. Bilge lines in high fire risk compartments 5. Scupper pipes below freeboard deck over board 6. EPDM sealing is not suitable for most of oily fluids 	Expires: 22.04.2019	14/20020 (E2)	