

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.

Manufacturer	Viega GmbH & Co KG
Address	Viega Platz 1, 57439 Attendorn, Germany
Type	Pipes And Crimped Fittings
Description	Stainless steel fittings (1.4401) and pipe system (1.4521 and 1.4401) 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.
Trade Name	Sanpress Inox, ProPress 304FKM, ProPress 316
Application	As piping components in Class III piping systems (including Urea) 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. Inert gas piping systems inside machinery spaces of category A, pump rooms and accommodation spaces.3. Fire main, water spray or sprinkler systems which are not always filled with water.4. Bilge lines in high fire risk compartments5. Scupper pipes below freeboard deck over board

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Specified Standard DVGW, IACS P 2.11 including wet fire endurance test,
LR Rules and Regulations for the Classification of Ships, 2021.

Ratings Pipe O.D: 15 mm to 108 mm and 1/2" to 4"
MAWP: 1,6 MPa,
Vacuum lines 170 mbar absolute
MAWT depending on sealing element
FKM: 140° C (284°F)
EPDM: 110°C (230°F)
HNBR: 82°C (180°F)

Other Conditions For deck and bulkhead penetrations see also the requirements of the National
Authorities.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 01/20042(E3)-02

The Design Appraisal Document HMD 6907-01, Issue No. 5 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Kingdom

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Appendix

PLACE OF PRODUCTION	Viega GmbH & Co. KG Viega Strasse 1 99851 Großheringen Germany	Viega GmbH & Co. KG Zum Langen Acker 7 57439 Attendorn / Ennest Germany
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