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Certificate No: LR22513745TA Issue Date: 26/01/2023 Expiry Date: 25/01/2028

## **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 Deutschland GmbH & Co.KG

**Address** Viega Platz 1, Attendorn, 57439, Germany

**Type** Pipe Press Fitting System

**Description** stainless steel press fittings with soft sealings for pipe systems

Trade Name Temponox

**Application** As piping components in non-essential class III systems such as

heating systems

closed cooling water systems

service air

urea (except size 22 and 28)

on ships classed or intended for Classification with Lloyd's Register.

**Specified Standard** Lloyd's Register Type Approval Test Specification No. 2

Lloyd's Register Rules and Regulations for the Classification of Ships, July 2022

**Ratings** see Appendix

**Additional Tests** DNVGW, IACS P 2.11 including wet fire endurance test

**Other Conditions** For penetration of pipes through watertight bulkhead and decks and fire

Johannes Wiegel

Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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divisions type approved penetrations are to be used.

Not approved for potable water.

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.

The Design Appraisal Document HPC 2261020/JW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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# <u>Appendix</u>

**Type** 

**Temponox** 

#### **RATINGS**

Size [mm]	15x1.0	18x1.0	22x1.2	28x1.2	35x1.5	42x1.5	54x1.5	76.1x1.5	88.9x1.5	108x1.5
Design										
pressure	16	16	16	16	16	16	16	16	16	16
[bar g]										
Sealing					FIZM			LINDS		
material	EPDM				FKM			HNBR		
Service	10% / 110%				F %C / 1140 %C			40 °C / 102 °C		
temperature	-10 °C / +110 °C				-5 °C / +140 °C			-40 °C / +82 °C		

### **PLACE OF PRODUCTION**

Viega GmbH & Co. KG, Viegastrasse 1 D-99518 Grossheringen Germany