



TYPE APPROVAL CERTIFICATE
No. **MAC227822XG**

This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"

<i>Description</i>	MECHANICAL JOINTS FOR PIPES
<i>Type</i>	Compression Coupling / Press Type
<i>Applicant</i>	Brand Name: Temponox / Temponox XL VIEGA TECHNOLOGY GMBH & CO.KG Viega Platz 1 57439 Attendorn GERMANY
<i>Manufacturer</i>	Viega Supply Chain GmbH & Co. KG
<i>Place of manufacture</i>	Viegastrasse 1 99518 Grossheringen GERMANY
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules; RINA Rules for the; Type Approval of Mechanical Joints for Pipes
<i>Reference documents</i>	RINA Type approval system

Issued in **HAMBURG** on **November 10, 2022**. This Certificate is valid until **November 9, 2027**



RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE
No. **MAC227822XG**
Enclosure - Page 1 of 2
Compression Coupling / Press Type
Brand Name: Temponox / Temponox XL

Reference documents:

- User Manual "Temponox / Temponox XL" and product information "DE Produktinformation Temponox"
- Test Reports No. 122000358 of 03.03.2022 "Prüfbericht Nr.122000358_Temponox_Final"

Technical characteristics:

This product is a pipe connecting system for pipes made of stainless steel material No. 1.4520 (AISI 439) (X2CrTi17).

Pipe press connectors are made of stainless steel material No. 1.4306 (AISI 304L) (X2CrNi 19-11))

Sealing elements are made of EPDM rubber or FKM rubber.

Nominal connector sizes are correlated with an outer pipe diameters in mm as follows:

Standard sizes: 15; 18; 22; 28; 35; 42; 54.

XL sizes: 76,1; 88,9; 108,0.

Operating temperature: -10°C up to 110°C for EPDM rubber (14°F up to 230°F)

-5° C up to 140° C for FKM rubber (23°F up to 284°F)

Maximum working pressure: 1,6 MPa (16 bar)

Pipes Dimensions according to the following table:



Pipe external diameter (mm)	Pipe thickness (mm)
15	1.0
18	1.0
22	1.2
28	1.2
35	1.5
42	1.5
54	1.5
76.1	1.5
88.9	1.5
108.0	1.5

TYPE APPROVAL CERTIFICATE
No. **MAC227822XG**
Enclosure - Page 2 of 2
Compression Coupling / Press Type
Brand Name: Temponox / Temponox XL

Fields of application:

This connecting system is intended for use on board ships and other units classed by RINA in the following piping systems:

- Domestic warm water heating;
- Closed cooling water system;
- Service Air (non-essential);
- for vacuum lines up 0,17 bar (2,46 psi) acc. to IACS test methods P2.11.5.5.7
- non essential systems

Temponox is type approved for UREA-(Hamstoff) applications up to 40°C and 1,0 MPa (10 bar) and a maximum permissible concentration of 40%.

Acceptance conditions:

Application of this product and its acceptable use for particular piping systems is indicated in RINA Rules Part C, Chapter 1, Section 10, Table 16 and column referring to compression couplings.

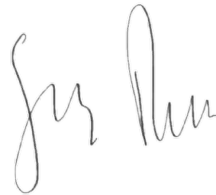
This product is not allowed to be used in class I and II piping systems as indicated in RINA Rules Part C, Chapter 1, Section 10, Table 17.

The acceptance of this product is subject to the satisfactory outcome of testing as per RINA Rules.

The installation on board is to be carried out in accordance with the Manufacturer's assembly instructions.

Special tools for proper mounting are to be supplied by the Manufacturer.

HAMBURG November 24, 2022

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