



TYPE APPROVAL CERTIFICATE
No. MAC285618XG/002

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: Sanpress Inox / Sanpress Inox 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 8, 2018**. *This Certificate is valid until* **November 7, 2023**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 2 enclosures.



TYPE APPROVAL CERTIFICATE

No. MAC285618XG/002

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Compression Coupling / Press Type

Brand Name: Sanpress Inox / Sanpress Inox XL

Reference documents:

- Catalogue of Sanpress connectors filed for information under RINA dwg no. HMMC-12115
- Test Reports filed for information under RINA dwg. no. HMMC-12315
- Fire Endurance Tests as per ISO 19921:2005,
- Vibration, Pressure Impulse, Burst Pressure, Pull-out and Vacuum Tests as per IACS section P2.11.5.5.

Technical characteristics:

This product is a pipe connecting system for pipes made of stainless steel material No. 1.4401 (AISI 316L) (X2CrNiMo 17-12-2)) and No. 1.4521 (AISI 444) (X2CrMoTi 18-2).

Pipe press connectors are made of stainless steel material No. 1.4401 (AISI 316L) (X2CrNiMo 17-12-2)) and No. 1.4521 (AISI 444) (X2CrMoTi 18-2).

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: 64,0; 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 |
| 64.0 | 2.0 |
| 76.1 | 2.0 |
| 88.9 | 2.0 |
| 108.0 | 2.0 |



TYPE APPROVAL CERTIFICATE

No. **MAC285618XG/002**

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Compression Coupling / Press Type

Brand Name: Sanpress Inox and Sanpress Inox 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:

- fire extinguishing and sprinkler systems
- cold & hot fresh water systems
- compressed air systems
- fresh water cooling systems
- brine systems
- for vacuum lines up to -0,17 bar (-2,46 psi) acc. to the IACS test methods P2.11.5.5.7
- flammable liquids system (flash point > 60°C)

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.

Remarks:

This Certificate has replaced the Type Approval Certificate No. MAC108613XG/003.

HAMBURG November 08, 2018



Two handwritten signatures in blue ink are visible. The first signature is on the left and the second is on the right, both appearing to be initials or names.