



TYPE APPROVAL CERTIFICATE

No. MAC108613XG/003

This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	Pipes couplings
<i>Type</i>	Sanpress Inox and Sanpress Inox XL
<i>Applicant</i>	VIEGA GMBH & CO.KG ENNESTER WEG 9 D-57439 ATTENDORN GERMANY
<i>Manufacturer</i>	VIEGA GMBH & CO.KG
<i>Place of manufacture</i>	ENNESTER WEG 9 D-57439 ATTENDORN GERMANY
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules
<i>Reference documents</i>	RINA Type approval system

Issued in **HAMBURG** on **November 15, 2013**. This Certificate is valid until **November 14, 2018**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure



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Reference documents

General Catalogue IT 631 413-590.01-1/08.

Materials/Components

Pipes: thin-walled pipes made of stainless steel n° 1.4401 or n° 1.4521 according to DIN EN 10088.

Fittings: stainless steel fittings sealed by EPDM synthetic rubber O-ring.

Technical characteristics

Maximum Working Pressure: 16 bar, or
12 bar for those services where fire resistance is required.

Maximum Working Temperature: 95 °C.

Pipes Dimensions according to the following table:

Pipe external diameter (mm)	Pipe thickness (mm)
15	1.0
18	1.0
22	1.2
28	1.5
35	1.5
42	1.5
54	1.5
64.0	2.0
76.1	2.0
88.9	2.0
108.0	2.5

Fields of application

Application of the mechanical joints and their acceptable use for each service are indicated in Table 16, Part C, Chapter 1, Section 10 of RINA Rules. Services where fire resistant type is required are accepted with a reduced design pressure of 12 bar.

Application of the mechanical joints depending upon the class of piping is indicated in Table 17 of a.m. Rules. Particularly press type compression couplings are not allowed on piping systems of I and II Class.

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The mechanical joints are not to be used in those systems where pressure pulsation other than water hammer is expected.

Acceptance conditions

The acceptance of the a.m. products on board ships and other units classed with RINA is subject to the satisfactory outcome of testing as per RINA Rules.

The installation on board of mechanical joints is to be made in accordance with the Manufacturer's assembly instructions. Where special tools and gauges are required for installation of the joints, these are to be supplied by the Manufacturer.

The gasket (O-ring) material is to be suitable for the conveyed medium.

Remarks

This Certificate cancels and replaces the previous n° MAC273209CS issued on 29.06.2009.

HAMBURG November 15, 2013

