TYPE APPROVAL CERTIFICATE
No. **MAC270320XG**

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

Description	**Pipes couplings**
Type	**Profipress and Profipress XL** **Propress**
Applicant	**VIEGA GmbH & Co. KG** **Viega Platz 1** **57439 Attendorn** **GERMANY**
Manufacturer *Place of manufacture*	**VIEGA GmbH & Co. KG** **Viega Platz 1** **57439 Attendorn** **GERMANY**
Reference standards	**Part C, Chapter 1, Section 10 of RINA Rules**
Reference documents	**RINA Type approval system**

Issued in **HAMBURG** on **February 17, 2021**. *This Certificate is valid until* **February 16, 2026**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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Profipress and Profipress XL
Propress

- ***Reference documents***

-General Catalogue IT 631 413-590.01-1/08
-TIFQ . Istituto per la Qualità Igienica delle Tecnologie Alimentari
-ATTESTAZIONE DI QUALITA. IGIENICA n° TIFQ- 0914R194
-MPA NRW Test Report n° 120004599-2E
-Viega Propress for Marine, submittal package ref. HMMC-18750

- **Materials/Components**

Fittings: From O.D. 12 up to 54 mm (Profipress)
Copper and Bronze (CuZn10Si4MnP) fittings sealed by EPDM synthetic rubber O-ring.

From O.D. 76.1 up to 108.0 mm (Profipress XL):
Copper and Bronze (CC499K) fittings sealed by EPDM sinthetic rubber O-ring.

From O.D. 1/2" up to 4" (Propress)
Copper and Bronze (CuZn10Si4MnP and CC499K) fittings sealed by EPDM synthetic rubber O-ring.

Pipes: Thin-walled pipes made of copper according to DIN 1057 Standard for use with Profipress and Profipress XL fittings.

Thin walled pipes made of copper according to ASTM B88 for use with Propress fittings.

- ***Technical characteristics***

-Profipress and Profipress XL:

Max Allowable Working Pressure: 16 bar or 12 bar for those services where fire resistance is required
Operatings Temperatures: -10°C to 110°C with EPDM.

-Propress:

Max Allowable Working Pressure: 232 psi or 174 psi for those services where fire resistance is required
Operatings Temperatures: 14°F to 230°F with EPDM.

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Flammable fluid require a HNBR of FKM sealing element.

Sealing elements are interchangeable.

Min/Max Operating Temperature:

EPDM: -10°C/+110°C (+14°F/+230°F)

FKM: -5°C/+140°C (+23°F/+284°F)

HNBR: -40°C/+82°C (-40°F/+180°F)

-Pipes Dimensions according to the following table:

ProfiPress & ProfiPress XL		ProPress			
Pipe external diameter (mm)	**Pipe thickness (mm)**	**Nominal Size D (in)**	**Outside Diameter (in)**	**Outside Diameter (mm)**	**Wall thickness Typ K (mm)**
12	1.0	1/2"	0.625"	15.90	1.24
15	1.0	3/4"	0.875"	22.20	1.65
18	1.0	1	1.125"	28.60	1.65
22	1.0	11/4"	1.375"	34.90	1.65
28	1.5	11/2"	1.625"	41.30	1.83
35	1.5	2"	2.125"	54.00	2.11
42	1.5	21/2"	2.625"	66.70	2.41
54	2.0	3"	3.125"	79.40	2.77
64	2.0	4"	4.125"	104.80	3.40
76.1	2.0				
88.9	2.0				
108.0	2.5				

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- ***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.

  -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 annuls and replaces the previous N°MAC022216XG.

HAMBURG February 17, 2021

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