



TYPE APPROVAL CERTIFICATE

Certificate No:
TAP00000YB
Revision No:
1

This is to certify:

That the Pipe System with Couplings

with type designation(s)
Prestabo / Prestabo XL

Issued to

Viega GmbH & Co. KG
Attendorn, Germany

is found to comply with

DNV rules for classification – Ships Pt.4 Ch.6 Piping systems
DNV-OS-D101 – Marine and machinery systems and equipment, Edition July 2021
DNV class programme DNV-CP-0185 – Type approval – Mechanical joints

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Temperature range: -10°C up to +110°C / +140°C (see page 3)

Max. pressure: 1,6 MPa / 16 bar

Design:

Issued at **Hamburg** on **2022-12-07**

This Certificate is valid until **2027-12-06**.

DNV local station: **Essen**

Approval Engineer: **Christian Kaemmer**

for **DNV**

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Sven Klinger
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Prestabo / Prestabo XL fittings consisting of a metallic sleeve (basic component), grip ring, separator ring, sealing element (O-ring).
 The grip ring with bidirectional teeth grips the outer surface of the pipe and locks the fitting to the pipe. The constant compression produces a positive, nondetachable mechanical joint. The fittings are to be assembled by dedicated pressing tools. The fittings are to be assembled with respective pipes delivered by Viega.

Prestabo: Pipe O.D. 12 mm up to 54 mm
Prestabo XL: Pipe O.D. 64 mm up to 108 mm
 "XL" indicates large sizes 64 mm up to 108 mm.

Technical data:

Fitting: Shaped galvanized fittings sealed with a synthetic rubber O-ring, zinc coating outside
Material: Carbon steel E235 (1.0308) acc. to DIN EN 10305-3.
Pipes: Galvanized, acc. to DIN EN 10305-3 and DIN EN 10130
Material: Carbon steel E195 (1.0034), E220 (1.0215), E235 (1.0308), DC01 (1.0330)
Sealing: EPDM, FKM
Pressing tool: in accordance with the instructions of the manufacturer.

Pipe diameter and wall-thickness:

| Diameter [mm] | 12 | 15 | 18 | 22 | 28 | 35 | 42 | 54 | 64 | 76,1 | 88,9 | 108 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|
| Pipe Wall Thickness mm] | 1,2 | 1,2 | 1,2 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 2,0 | 2,0 | 2,0 | 2,0 |

Application/ Limitation

The Prestabo / Prestabo-XL press fitting system is type-approved for pipe class III-piping systems, non-essential systems as follows:

- Domestic warm water heating systems
- Cold water systems
- Service Air

Not approved for potable water, sanitary drains.

Type of mechanical joint: Compression coupling – press type acc. to DNV Rules Pt.4, Ch.6, Sec. 9 – Table 8 and 9.

| Sealing material Ring gasket | EPDM | FKM |
|---------------------------------|----------------|----------------|
| | -10°C / +110°C | -10°C / +140°C |

At elevated temperatures the maximum working pressure is to be reduced:

| Temperature | Factor Carbon steel |
|---------------|---------------------|
| 100°C | 1.00 |
| 100°C - 140°C | 0.89 |



Job Id: **262.1-012966-4**
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Type Approval documentation

Tests carried out

CP-0185

Tightness test, Burst pressure test, Pull-out test, Fire resistance test (wet condition), Vibration (endurance) test, Pressure Impulse-test, Vacuum-test.

Production place

Viega GmbH & Co. KG, Werk Großheringen, Germany

Marking of product

- Manufacturer`s Mark
- Type
- Nominal Diameter

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment to verify that the conditions for the Type Approval are complied with. Refer to the Class Programme DNV-CP-0338, Sec.4.

To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>