

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pipe System with Couplings

with type designation(s)
Prestabo / Prestabo XL

Issued to
Viega Technology GmbH & Co. KG
Attendorn Nordrhein-Westfalen, Germany

is found to comply with
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems
DNV GL class programme DNVGL-CP-0185 – Type approval – Mechanical joints

Application :

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

Temperature range: -10°C to max. +110°C / +140°C see page 2
Max. pressure: 1,6 MPa
Design: Press Type Compression Coupling System with Pipes

Issued at **Høvik** on **2017-12-12**

for **DNV GL**

This Certificate is valid until **2022-12-11**.

DNV GL local station: **Essen**

Approval Engineer: **Christian Kaemmer**

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Olaf Drews
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.



Product description

Prestabo: Pipe O.D. 12 mm up to 54 mm
Prestabo XL: Pipe O.D. 64 mm up to 108 mm

Galvanised carbon steel press fittings - and pipe-system with o-ring seal.
The system is consisting of pipes and fittings to be assembled by pressing tool.

TECHNICAL DATA

Fittings: 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
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/ Limitations

The Prestabo/Prestabo XL-system is approved for non-main class applications:

- Domestic warm water heating systems
- Cold water systems
- Service Air, non essential
- Non essential systems

Not for potable water, sanitary drains.

Further non-main-class applications may be accepted and have to be authorized by the manufacturer.

The fittings are to be assembled with respective pipes delivered by Viega.

Main-class-applications are listed under DNVGL-Rules Part 4 – Chapter 6 Section 1 Table 2.

Temperature range Sealing materials	EPDM	FKM
	-10°C / +110°C	-10°C / +140°C

Job Id: **262.1-012966-3**
Certificate No: **TAP00000YB**

At elevated temperatures the maximum working pressure is to be reduced according to the factors in the following table:

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

Type Approval documentation

MPA Test Report 120003804-1, dated: 2011-08-03
Phoenix Fire Resistance Test 101645, dated: 2011-04-28
IHA Fire Resistance Test 014-11, dated: 2011-07-05
MPA Test Report 120004946 dated 2017-01-2017
Techn. Datasheet Pressing tool "Pressgun 5"
Type Approval Assessment Report dated 2016-09-15
Data-Sheet "Systempresswerkzeuge Rohrleitungstechnik" P1_DE_de20171005_121928_15
Techn. Catalogue phb7_9_werkzeuge; Chapter 9 „Werkzeugsysteme“

Tests carried out

Burst-test, Fire-test, Vibration-test, Pressure Impulse-test, Leakage-test, Vacuum-test

Production place

Viega Supply Chain GmbH & Co. KG, Viega Str. 1, 99518 Großheringen, Germany

Marking of product

- Manufacturer`s Mark
- Type
- Nominal Diameter

Periodical assessment

For retention of the type approval certificate periodical assessments shall be carried out at production places by DNVGL surveyor. The objective of the periodical assessment is to verify that the design and production conditions for the type approval have not been altered.

Main scope of the assessment:

- verification of the production and quality control system
- review of quality control documentation of recent deliveries
- review of drawings in production to verify any design changes which may have an impact on data specified in the type approval certificate, performance and range of application
- verification of the product marking
- witness of burst testing on selected sizes from production.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.