

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Press fittings**with type designation(s)  
**MegaPress CuNi 90/10, Compression coupling, press type**

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:** 23°F to +284°F ( -5°C to +140°C)  
**Max. working press.:** 1/2" to 3": 1,6 MPa (232 psi)      4": 1,25 MPa (181 psi)  
**Sizes:** 1/2" to 4"Issued at **Hamburg** on **2019-03-25**for **DNV GL**This Certificate is valid until **2024-03-24**.DNV GL local station: **Essen**Approval Engineer: **Christian Kaemmer**.....  
**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.



Job Id: **262.1-026807-2**  
Certificate No: **TAP000015A**  
Revision No: **1**

## Product description

### MegaPress CuNi90/10:

Megapress fittings consisting of a sleeve (basic component), grip ring, separator ring, sealing element. The grip ring with bidirectional teeth grip 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 a pressing tool.

Pipe Outer Diameter [mm]	Pipe Outer Diameter [inch]	Wall thickness of pipe [mm] ASTM B466 "Regular"	Wall thickness of pipe [mm] MIL-T-16420K(SH) "Class200"
21,3	½"	2,79	1,65
26,7	¾"	2,79	1,65
33,4	1"	3,3	1,65
42,2	1 ¼"	3,56	1,83
48,3	1 ½"	3,81	1,83
60,3	2"	3,81	2,11
73,0	2 ½"	5,08	2,11
88,9	3"	5,59	2,41
114,3	4"	6,10	2,77

### Technical data:

Sleeve (basic component): WL 2.1972.11 / CuNi10Fe1,6Mn  
Grip-ring: Stainless Steel 420  
Separator ring / XL-Separator ring: AISI 304 / PBT  
Sealing: FKM  
Pressing tool / XL-Pressing tool: Pressgun 5 / Pressgun 5 with Press Booster and Ridgid RP340 / Ridgid RP340 with Booster  
Pipes: Seamless copper nickel tubes as per ASTM B466/B466M or MIL-T-16420K(SH) "Class200"

## Application/ Limitations

The MegaPress fittings are approved for class III-piping systems for applications:

- Seawater cooling
- Fire extinguishing systems
- Bilge lines
- Ballast Systems
- Tank cleaning systems
- Cargo oil lines
- Fuel- hydraulic- and lubricating oil lines
- Domestic heating & cooling
- Compressed air
- Condensate return lines
- Vacuum lines
- Inert Gas
- Non-essential systems

Restrictions for above mentioned applications for compression couplings "press type" acc. to DNVGL-Rules Part 4 Chapter 6 Section 9 Table 11 are to be observed.

Approved for fire resistance.

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## Type Approval documentation

### Size ½" to 2":

MPA Test Report 120005000, dated: 2017-04-06

IHA Fire Resistance Test Report 026-17 & 023-17; dated: 2017-05-23

Data-Sheet "Systempresswerkzeuge Rohrleitungstechnik" P1\_DE\_de20171005\_121928\_15

Techn.Catalogue phb7\_9\_werkzeuge, chapter 9"Werkzeugsysteme".

Drawing No: 102011, 101865, 510955, 510943, 484273, 296910, 536671, 101809, 510957, 510945, 497468, 296912, 536673, 101810, 510960, 510947, 497470, 296914, 536138, 101811, 510963, 510949, 497472, 296916, 512849, 101812, 510966, 510951, 497474, 296918, 536675, 101813, 510969, 510953, 497476, 268237, 536677, 101814.

Datasheet Systemdata: SD-MP 1017; Brochure "MegaPress CuNi"; Installation Manual IM-MP 593258 1017; Product instructions PI-MP 590078 0317, PI-MP 590078 0616; Dimensional documentation DD-MP 0717, Engineering Specifications ESD-MP 1017.

### Size 2 ½" to 4":

MPA Test Report 120005268-1, dated: 2018-10-31

IHA Fire Resistance Test Report 052-18; dated: 2017-05-23

Test-plan witnessed by Surveyor dated 12-06-2018

Customer Certification 3.1 acc. to EN 10204

Drawing No: 101817H, 101815F, 101816C, 101969B, 519405A, 519408A, 519402A, 1012489B, 1012490B, 1012492B, 4928771, 493279F, 493280F, 501237AE, 501239AE, 501241AE,

Installation Manual IM-MP 593258 0319

Product instructions PI-MP 591445 0518.

Type Approval Assessment Report dated 2019-02-18

## Tests carried out

Burst-test, Fire-test, Vibration-test, Pressure Impulse-test, Tightness-test, Vacuum-test, Pull-out test.

## Production place

Viega Supply Chain GmbH & Co KG

Viegestrasse 1

D-99518 Großheringen / Germany

## Marking of product

- Manufacturer`s name
- Size of the fitting
- Quality trace number

## Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to DNVGL-CP-0338, Sec.4.