

TYPE APPROVAL CERTIFICATE

Certificate No: TAP0000122 Revision No: 2

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That the Press fittings

with type designation(s) **MEGAPRESS**

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.

depending on sealing quality, see page 2 Temperature range:

Max. working press.: 1,6 Mpa (232 psi) Sizes: 3/8" up to 4"

Issued at Hamburg on 2019-09-19

for **DNV GL**

This Certificate is valid until 2023-04-23.

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.



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Product description

Megapress:

Megapress fittings consisting of a press end with multiple components including a sleeve (basic component), grip ring, separator ring, sealing element.

The grip ring with teeth grip / bite 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. "XL" indicates sizes 2 ½", 3" and 4".

Pipe Outer Diameter [mm]	Pipe Outer Diameter [inch]	Min. Wall thickness of pipe [mm]
17,2	3/8"	1,8
21,3	1/2"	2,0
26,9	3/4"	2,0
33,7	1″	2,0
38,0		2,3
42,4	1 1/4"	2,0
44,5		2,3
48,3	1 ½"	2,3
57,0		2,3
60,3	2"	2,3
76,1	2 ½"	2,6
88,9	3"	2,9
114,3	4"	3,2

Technical data:

Sleeve (basic component): Carbon steel 1.0308/ St 35 with exterior zinc nickel coating and

with O-ring-sealing-element

Grip-ring: Stainless Steel AISI 420 / 1.4021

Separator ring: Stainless Steel AISI 304 / 1.4301 for 3/8" up to 2"

PBT for 2 ½" up to 4"

Sealing: EPDM, HNBR, FKM

Pressing tool: Pressgun 5 and respective pressing machines & pressing rings in

accordance with the instructions of Viega.

Pipes: Steel pipes as per ASTM A53/A53M-18 Schedule 10 to 40

Steel pipes as per DIN EN 10216 respectively DIN EN 10217

Sealing materials	EPDM	HNBR	FKM
Size range	3/8" up to 2"	½" up to 4"	3/8" up to 4"
Temperature range	-10°C / +110°C	-10°C / +70°C	-5°C / +140°C
Temperature range	14°F / 230°F	14°F / 158°F	23°F / 284°F

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Application/Limitations

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

- Fire extinguishing systems
- Bilge lines
- Ballast Systems
- Tank cleaning systems
- Cargo oil lines
- Fuel 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 9 and according to Viega-application-list are to be observed.

Approved for fire resistance, not approved for potable water, sanitary drains.

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

Temperature	Carbon steel	
+ 100°C / 212°F	1.00	
100°C up to 140°C / 284°F	0.89	

Type Approval documentation

MPA Test Report 120003993, dated: 2012-07-30 MPA Test Report 122000076, dated: 2019-08-29

IHA Fire Resistance Test 006-12, 007-12, dated: 2012-07-04

Fire Resistance Test 0086-12, dated: 2012-07-05

Operating and Installation Guidelines, Technical Documentation

MPA NRW Report-No.: 130002758, dated: 2012-11-23

IACS-Test-Report, System Megapress 3/8", dated: 2015-10-06

MPA NRW Report-No.: 120004876, dated: 2016-10-25

Megapress Gebrauchsanleitung G; GA9; S XL MPA Test Report 120005114, dated: 2017-12-04 MPA Test Report 122000070, dated: 2019-08-08 MPA Test Report 122000040, dated: 2019-04-09

Fire Resistance Tests No: 126-19; 129-19; 130-19131-19; 133-19 dated 06-08-2019

Fire Resistance Tests No: 051-17 & 052-17 dated 27-09-2017.

Prüfplan Megapress Gas XL /HNBR 2 1/2" – 4"

Prüfplan Megapress FKM ½" - 2"

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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 Viegastrasse 1 D-99518 Großheringen / Germany

Marking of product

- Manufacturer`s name
- Size of the fitting
- County of origin
- · Batch code / 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.

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