

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Tube Fittings**

with type designation(s)  
**Megapress Push-in Connection**

Issued to  
**Viega Technology GmbH & Co. KG**  
**Attendorn, 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:** see Certificate page 2  
**Max. working press.:** 1.6 MPa / 16 bar  
**Sizes:** 3/4" for pipe diameter 1 1/2" up to 6"

Issued at **Hamburg** on **2020-04-21**

for **DNV GL**

This Certificate is valid until **2025-04-20**.

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

### Press-in branch connector:

Press-in branch connector consisting of a housing with a sealing element made of EPDM, HNBR or FKM. It has an Rp 3/4" internal thread acc. to ASME B1.20.1 and is assembled perpendicular to the pipe axis. Assembling by means of a tool set, drilling device and drilling shaft.

Press-in branch connector Diameter [inch]	Pipe Outer Diameter [inch]	Pipe outer diameter [mm]	Wall thickness of pipes Min [mm] – Max [mm]
3/4"	1 1/2"	48,3	2,3 - 4,0
3/4"	2"	60,3	2,3 - 4,5
3/4"	2 1/2"	76,1	2,6 - 4,5
3/4"	3"	88,9	2,9 - 5,0
3/4"	4"	114,3	3,2 - 5,4
3/4"	5"	139,7	3,6 - 5,4
3/4"	6"	168,3	4,0 - 5,4

**Pipes:** Galvanized, coated pipes acc. to DIN EN 10216 respectively DIN EN 10217

**Pressing tool:** Pressgun 5, Pressgun 4E/4B; PT3-AH; PT3-H/EH; Typ 2 & Viega tool set.

Sealing materials	EPDM	HNBR	FKM
<b>Temperature range</b>	-10°C / +110°C	-10°C / +82°C	-5°C / +140°C
<b>Limited Temperature for compressed air</b>	-10°C / +60°C	-10°C / +60°C	-5°C / +60°C

## Application/ Limitations

The Megapress Push-in-connections with pipe sizes 48,3 mm – 168,3 mm ( 1 1/2" – 6") are type-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

Job Id: **262.1-031585-1**  
Certificate No: **TAP00001XA**

Restrictions for above mentioned applications for compression couplings "press type" acc. to DNVGL-Rules Part 4 Chapter 6 Section 9 Table 11 and according to Viega-application-list are to be observed. Approved for fire resistance. Max. working pressure 1,0 MPa/10 bar for compressed air @ diameter 5" and 6".

## **Type Approval documentation**

Fire Resistance Tests IHA; Test-Report 049-18 & 050-18 dated 07-08-2018; 013-16 dated 11-03-2016  
MPA NRW Test-Report-No.: 120005269 dated: 2018-07-17; 120005091 dated 19-10-2017  
MPA NRW Test-Report-No.: 122000124-1 dated 2020-03-04  
GL Test Report LE-2016-0240 dated 23-03-2016  
Prüfplan Megapress Push-in Connection with FKM.  
Techn. Datasheet FKM-Compound B5-5750.  
Burst Pressure Test Report witnessed by Surveyor dated 16-10-2019 and 11-02-2020.  
Techn. Documentation "Fields of applications for metal installation systems" No.: 566263 09.19/2017  
Techn. Documentation "MegaPress Tool Set" No.: 4875.5 4/13/2017  
Techn. Drawing: 435030AF, 451839X, 435790X

## **Tests carried out**

Burst-test, Fire-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.