

Engineering Specifications

Viega MegaPress[®] CuNi Seawater Piping System



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Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with Viega products and their installation. **Installation by non-professionals may void Viega LLC's warranty.**

1. Summary

MegaPress CuNi is a mechanically attached pipe fitting system. The MegaPress CuNi system includes fittings from ½" to 4" made of 90/10 copper nickel wrought alloy. For use in Class III pipe systems for transporting sea water and other media in accordance with section 4.6.2, Table 9 and 10 of the ABS Steel Vessel Rules for compression couplings. The fittings are an approved fire-resistant type.

2. Manufacturer

Viega LLC 585 Interlocken Blvd. Broomfield, CO 80021 Phone (800) 976-9819 www.viega.us

- 3. Material
 - A. Viega MegaPress CuNi fittings are made of non corrosive copper nickel CuNiFe 90/10 wrought alloy UNS C70600.
 - B. The Viega MegaPress CuNi fittings include a factory installed high performance FKM sealing element.
 - C. Also, refer to applicable marine approval for design, application and system limitations.
 - D. MegaPress CuNi fittings shall be connected with Class 200 or Schedule 40 CuNiFe 90/10 pipe compliant to the following standards:
 - 1. ASTM B466 / B466M: Standard Specification for seamless copper-nickel pipe and tube
 - 2. ASTM B467: Standard Specification for welded copper-nickel pipe
 - 3. MIL-T-16420K: Military Specification, tube, copper-nickel alloy, seamless and welded

4. Fitting Markings

Fittings shall be marked with manufacturers name "Viega," size of the fitting, Germany, and a quality trace number.

5. Fitting Design

- A. The MegaPress CuNi fittings contain a sealing element, separator ring and bite ring. The stainless steel bite ring is pressed on top, forcing the bite ring teeth against the outer surface of the pipe, making a high strength connection.
- B. Operating Temperature: 23° to 284°F max. (-5° to 140°C)
- C. Operating Pressure: 232 psi max. (16 bar)
- 6. Installation
 - A. Fittings joints shall be made in accordance with the manufacturer's installation instructions. The pipe shall be fully inserted into the fitting and the pipe marked at the shoulder of the fitting. Refer to product instructions for insertion depth and pipe deburring instructions. The fitting alignment shall be checked against the mark on the pipe to ensure the pipe is fully engaged (inserted) into the fitting.
 - B. The joints shall be pressed using a press tool recommended by Viega.

7. Standards

MegaPress CuNi System conforms to the following piping standards:

- A. International Association of Classification Societies
 - 1. Requirements concerning pipes and pressure vessels
- B. United States Coast Guard
- C. 2017 ABS Steel Vessel Rules
- D. ASTM F3226/F3226M Standard Specification for Metallic Press-Connect Fittings for Piping and Tubing Systems
- Shipbuilding Type Approvals
 ABS: American Bureau of Shipping
 LR: Lloyd's Register
 BV: Bureau Veritas
 DNV-GL: Det Norske Veritag Germanischer Lloyd
 NK: Nippon Kaiji Kyokai
 RINA: Registro Italiano Navale



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