



Confirmation of Product Type Approval

Company Name: VIEGA GMBH & CO. KG

Address: VIEGA STRASEE 1, D-99518 GROSSHERINGEN, Germany

Product: Piping System and Couplings

Model(s): MegaPress CuNi XL

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-HS1837461-PDA-DUP	12-APR-2019	11-APR-2024
Manufacturing Assessment (MA)	16-AG3180761	04-AUG-2016	03-AUG-2021
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Marine and Offshore Applications - For Class III systems such as Fresh/Sea water, Fire Main, Water Spray System, Foam, Sprinkler, Bilge, Ballast, Sanitary, Fuel/Lube/Hydraulic Oil, Tank Cleaning, Gas, Air Piping and Non Essential Systems.

Description

MegaPress CuNi 90/10 XL Cold Press fittings and pipe systems with Smart Connect for the US sizes 2 ½" to 4" and also sizes as per DIN EN 10255. The fittings are offered with a FKM sealing element. The press connection is performed by a hydraulic press tool.

Ratings

M.A.W.P. = 16 bar (232 psi) MegaPress CuNi 90/10 with FKM

Maximum Operating Temperature: 23°F to 284°F (-5°C to 140°C).

The fittings are designed to be installed with Class 200 and Schedule 40 90/10 copper nickel pipe. The fittings are an approved fire resistant type.

Applications as per 4-6-2/Table 9 &10 of the Marine Vessels Rules for compression couplings.

Service Restrictions

- Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

- EPDM should not be used in Fuel, Lube Oil & Hydraulic applications.

- The press-fitting system is not to be used in any direct connection to the shell of the vessel (only inboard of required shell valves).
- Only to be used in class III piping and not to be used in class 1 and class II piping per 4-6-2/Table 11 of the Marine Vessels Rules.

Comments

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- Each particular application, including deck/bulkhead penetrations, of the press fitting system is to be specifically approved in connection with the relevant system and installation.
- The manufacturer's instructions regarding compatibility of pipe/ fitting/ sealing ring materials and working media are to be followed.
- For temperatures below -18 °C (0 °F) Charpy Impact test is required as per 2-3-13/15 of the Marine Vessels Rules.

Notes, Drawings and Documentation

IHA_Test Certificate 052-18, IHA_Test Report, Test Certificate 052-18, Revision: -, Pages: -

MPA_MP_CUNIFE_XL_Test_Report, MPA_MP_CUNIFE_XL_Test_Report 120005268-1, Revision: -, Pages: -

- 528459 B Model 0515.1XL 2.5x2in drawing 2-18-2019;
- 529016 B Model 0515.1XL 3x2in drawing 2-18-2019;
- 529026 A Model 0515.1XL 3x2.5in drawing 2-18-2019;
- 529047 A Model 0515.1XL 4x3in drawing 2-18-2019;
- 528449 B Model 0515.1XL 2.5x1.5in drawing 2-18-2019;
- 529036 A Model 0515.1XL 4x2.5in drawing 2-18-2019;
- 528486 B Model 0515.2XL 2.5x2in drawing 2-18-2019;
- 528473 B Model 0515.2XL 2.5x1.5in drawing 2-18-2019;
- 529100 B Model 0515.2XL 3x2in drawing 2-18-2019;
- 529113 A Model 0515.2XL 3x2.5in drawing 2-18-2019;
- 529126 A Model 0515.2XL 4x2.5in drawing 2-18-2019;
- 529139 A Model 0515.2XL 4x3in drawing 2-18-2019;
- 519411 A Model 0515.5XL 2.5in drawing 2-18-2019;
- 519414 A Model 0515.5XL 3in drawing 2-18-2019;
- 519417 A Model 0515.5XL 4in drawing 2-18-2019;
- 519402 A Model 0515XL 2.5in drawing 2-18-2019;
- 519405 A Model 0515XL 3in drawing 2-18-2019;
- 519408 A Model 0515XL 4in drawing 2-18-2019;

519157 B Model 0516.1XL 2.5in drawing 2-18-2019;
519162 A Model 0516.1XL 3in drawing 2-18-2019;
519173 B Model 0516.1XL 4in drawing 2-18-2019;
519038 A Model 0516XL 2.5in drawing 2-18-2019;
519142 B Model 0516XL 4in drawing 2-18-2019;
519110 B Model 0516XL 3in drawing 2-18-2019;
519571 B Model 0517.2XL 3x3x.75in drawing 2-18-2019;
519567 B Model 0517.2XL 3x3x.5in drawing 2-18-2019;
519577 C Model 0517.2XL 4x4x.75in drawing 2-18-2019;
519700 A Model 0518XL 2.5in drawing 2-18-2019;
519574 C Model 0517.2XL 4x4x.5in drawing 2-18-2019;
519632 A Model 0518XL 3in drawing 2-18-2019;
519670 B Model 0518XL 3x3x2in drawing 2-18-2019;
519715 A Model 0518XL 3x3x2.5in drawing 2-18-2019;
519808 B Model 0518XL 4x4x2.5in drawing 2-18-2019;
519731 A Model 0518XL 4in drawing 2-18-2019;
519839 A Model 0518XL 4x4x3in drawing 2-18-2019;
519773 B Model 0518XL 4x4x2in drawing 2-18-2019;
519328 B Model 0526.1XL 2.5in drawing 2-18-2019;
519366 A Model 0526.1XL 3in drawing 2-18-2019;
519370 A Model 0526.1XL 4in drawing 2-18-2019;
519193 B Model 0526XL 2.5in drawing 2-18-2019;
519286 A Model 0526XL 4in drawing 2-18-2019;
523350 C Model 0559.3XL 2.5in drawing 2-18-2019;
519232 A Model 0526XL 3in drawing 2-18-2019;
523474 C Model 0559.3XL 3in drawing 2-18-2019;
523504 C Model 0559.3XL 4n drawing 2-18-2019;

Term of Validity

This Product Design Assessment (PDA) Certificate 19-HS1837461-PDA-DUP, dated 12/Apr/2019 remains valid until 11/Apr/2024 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules

Rules for Conditions of Classification, Part 1 2019 - 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2019 Marine Vessels 4-6-1/5, 4-6-1/7, 4-6-2/5.9 and 4-6-2/Table 4/Table 10/Table 11/Table 12

2019 Steel Vessels 4-6-1/5, 4-6-1/7, 4-6-2/5.9 and 4-6-2/Table 4/Table 10/Table 11/Table 12

2019 ABS Rules for Conditions of Classification, Part 1 – 2019 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2019 MOU Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-1/5, 4-2-1/11.13;

Rules for Conditions of Classification, Part 1 - 2019 High Speed Craft 1-1-4/11.9, 1-1-A2, 1-1-A3, which covers the following:

2019 High Speed Naval Craft Rules: 4-6-2/5.9;

International Standards

IACS UR P2.11.2001/2018;

ISO 19921: 2005

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

IACS Standard P2 Requirements; 2018



A handwritten signature in black ink, appearing to read "Joseph W. Wilson".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 07-Jul-2021 8:22

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.