



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 08-OCT-2017. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

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.

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.

Product Name: Piping System and Couplings
Model Name(s): MegaPress, MegaPressG

Presented to:
VIEGA GMBH & CO. KG
P.O. BOX 430/440
Germany

Intended Service: Marine and Offshore Applications - EPDM Sealing Element used for Hydronic Heating, Compressed Air including Service & Control Air, Fire Sprinkler, Fire-Main (wet or dry), Foam, Bilge, Ballast, Scuppers (below freeboard deck to overboard), Cooling Water, Low Pressure Steam. HNBR sealing element for use in Compressed Air, Cooling Water Systems and Fuel/Lube/Hydraulic Oil in machinery spaces of category A.

Description: Carbon Steel Cold Press fittings and pipe systems with SC-Contur for the US sizes 3/8" to 2" and also sizes as per DIN EN 10255. The SC feature enables quick identification of unpressed fittings. The fittings are offered with different sealing elements: EPDM and HNBR. The press connection is performed by a hydraulic press tool.

Tier: 3

Ratings: M.A.W.P. = 16 bar (232 psi), MegaPress EPDM Sealing Element; Maximum Operating Temperature: 0°F to 250 °F (-18°C to 120°C). MegaPressG HNBR Sealing Element; Maximum Operating Temperature: -40°F to 180°F (-40°C to 82°C). The fittings are designed to be installed with ASTM A53 or ASTM A106 pipe, either Grade A or B. MegaPress may be installed on FBW, ERW or SML pipe. The pipe wall thickness may be Schedule 10 or Schedule 40. The fittings may also be used with Schedule 80 pipe limited to the maximum pressure listed above. The fittings are an approved fire resistant type. Applications as per 4-6-2/Table 9 &10 of the Steel Vessel Rules for compression coupling. Slip on joint requirements

shall not apply to MegaPress or MegaPress G fittings.

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. Couplings with fittings on Furnace Butt Welded (FBW) pipes are permitted for use only in Class III piping systems, except for flammable fluids (Fuel/Lube/Hydraulic Oil). Couplings with fittings on Schedule 10 pipes are not to be used on seawater systems.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. For temperatures below -18 °C (0 °F) Charpy Impact test is required as per 2-3-13/15 of the Steel Vessels Rules.

Notes / Documentation:

Drawing No. 101035, 101035, Revision: -, Pages: - Drawing No. 101036_J, 101036_J, Revision: -, Pages: - Drawing No. 101037_I, 101037_I, Revision: -, Pages: - Drawing No. 101038_I, 101038_I, Revision: -, Pages: - Drawing No. 101039_H, 101039_H, Revision: -, Pages: - Drawing No. 101040_H, 101040_H, Revision: -, Pages: - Dwg. No.: 101035, Rev. J, Detail Press Connection, MegaPress; Dwg. No.: 239932, Rev. H, Grip Ring, MegaPress; Dwg. No.: 266453, Rev. E, Sleeve, MegaPress; Dwg. No.: 296910, Rev. C, Separator Ring, MegaPress; Dwg. No.: 314309, Rev. C, Washer, MegaPress; Dwg. No.: 314523, Rev. C, Sleeve, MegaPress; Dwg. No.: 101040, Rev. H, Detail Press Connection, MegaPress; Dwg. No.: 239378, Rev. F, Grip Ring, MegaPress; Dwg. No.: 266511, Rev. E, Sleeve, MegaPress; Dwg. No.: 268237, Rev. E, Separator Ring, MegaPress; Dwg. No.: 314299, Rev. D, Washer, MegaPress; Dwg. No.: 315074, Rev. B, Sleeve, MegaPress; MPA NRW Test Report No. 120003993-e dated 10 April 2012 (6 shts). IACS Burst Test dated 30 July 2012; * TD-MegaPress 1011 TechData for Viega MegaPress & MegaPressG Fitting Systems; * Brochure 724843_MP_System_BR_USA_0112, Viega MegaPress Systems, dated 2011, 11 shts; * PI-PP-561108 1112 (MegaPressG) Product Instructions; * 001-13, 002-13 & 003-13, IHA Test Certificates, Fire Resistance of Pipeline Components, dated 03/01/2013; Drawing No. 460150_2595484_597, Drawing 460150, Revision: -, Pages: 1 Drawing No. 460162_2595777_597, Drawing 460162, Revision: -, Pages: 1 Drawing No. 460184_2595788_597, Drawing 460184, Revision: -, Pages: 1 Drawing No. 460192_2595786_597, Drawing 460192, Revision: -, Pages: 1 Drawing No. 460196_2595791_597, Drawing 460196, Revision: -, Pages: 1 Drawing No. 460200_2598357_597, Drawing 460200, Revision: -, Pages: 1 Drawing No. 460305_2597544_597, Drawing 460305, Revision: -, Pages: 1 Drawing No. 460307_2597546_597, Drawing 460307, Revision: -, Pages: 1 Drawing No. 460311_2597548_597, Drawing 460311, Revision: -, Pages: 1 Drawing No. 460313_2597554_597, Drawing 460313, Revision: -, Pages: 1 Drawing No. 460315_2597575_597, Drawing 460315, Revision: -, Pages: 1 Drawing No. 460317_2597579_597, Drawing 460317, Revision: -, Pages: 1 Drawing No. PDA_994646, PDA, Revision: -, Pages: 1

Term of Validity:

This Product Design Assessment (PDA) Certificate 12-HS928791-4-PDA, dated 15/Dec/2016 remains valid until 08/Oct/2017 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 2016 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2016 Steel Vessel 4-6-1/5, 4-6-1/7, 4-6-2/3, 4-6-2/5.1, 4-6-2/5.9 and 4-6-2/Table 4; 2016 ABS Rules for Conditions of Classification, Part 1 – 2016 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: 2016 Mobile Offshore Drilling Units 1-1-4/9.7, 1-1-A2 & A3, 4-2-1/5, 4-2-1/11.13, 4-2-2/5 and 4-2-2/5.7

National Standards:

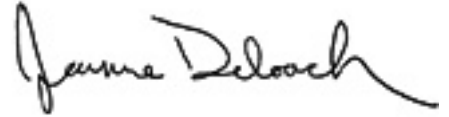
ASME B31.1-2015, ASME B31.3-2015, UL 213, 2004; ASTM A53-2012, UL 852-2014, ASTM A106-2015, ANSI-CSA LC-4: 2012;

International Standards:

ISO 19921:2005, ISO 19922: 2005.

Government Authority: USCG LTR 16714/46 CFR 56 (2017-3500)**EUMED:****Others:**

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	12-HS928791-4-PDA	15-DEC-2016	08-OCT-2017



ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.