



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 Press-in Branch Connector.

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-HS1867105-PDA-DUP	17-JUN-2019	16-JUN-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 hydronic heating, cooling, compressed gases, compressed air including service and control air, process and cooling water, fire sprinkler, low pressure steam, fire main, foam, bilge, ballast, scuppers and fuel/lube/hydraulic oil.

Description

The MegaPress Press-in Branch Connector is an innovative way to create branches from main runs or install instrumentation onto existing piping. The branch connector installs onto 1-1/2" through 4", and 6", carbon steel pipe and has a 3/4" FPT outlet. It is available for schedule 10 and schedule 40 carbon steel pipe.

The fitting is offered with either an EPDM or FKM sealing element, depending on application. A hydraulic press tool is used to install the branch connector.

Ratings

M.A.W.P = 14 bar (203 psi).

Operating temperature FKM: 23° F to 284°F (-5°C to 140°C), EPDM: 14°F to 250°F (-10°C to 121°C).

Megapress Branch Connector for Schedule 10 & 40 pipe, carbon steel – Model 4812.2/4812.25 with FKM Sealing element - maximum operating Temperature: 284° F (140° C).

Megapress Branch Connector for Schedule 10 & 40 pipe, carbon steel – Model 4812.3/4812.35 with EPDM Sealing element - maximum operating Temperature: 250° F (121° C).

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 and Flammable fluid 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.
- Branch connector are not to be used in the piping section directly connected to the vessel's side below the bulkhead deck of passenger vessels and freeboard deck of cargo vessels or tanks containing flammable fluids per 4-6-2/5.9.1(f) of the High-Speed Naval Craft 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 element materials and working media are to be followed.
- All Press-in Branch Connector are to bear permanent identification, such as the manufacturer's name or trademark, material identify, pressure rating, etc. at which the manufacturer guarantees the Branch Connector to meet the requirements of the manufacturer's standards. Such markings may be cast or forged integral with, stamped on, or securely affixed by nameplate on the component, and are to serve as a permanent means of identification of the component throughout its service life in accordance with 4-6-1/7.1.3 and 4-6-1/7.1.4 of Marine Vessels Rules.

Notes, Drawings and Documentation

Drawing No. 4878.5, IM-MP Branch Connector 0418;

Drawing No. DD-MP 1218, Viega MegaPress Branch Connector;

Drawing No. General information sheet Branch Connector, MegaPress Press-In Branch Connector;

Drawing No. TD-MP 0319, Tech Data Press-in Branch Connector;

Drawing No. Test Certificate 004-19, Test Report ISO 19921 Fire Resistance of Branch Connector Sch40 - EPDM

Testing Facility : Internationale Hydraulik Akademie Gmbh, Am Promigberg 26 D-01108 Dresden - Weixdorf ; Test Date : Jan 9, 2019

Drawing No. Test Certificate 005-19, Test Report ISO 19921 Fire Resistance of Branch Connector Sch40 - FKM;

Testing Facility : Internationale Hydraulik Akademie Gmbh, Am Promigberg 26 D-01108 Dresden - Weixdorf ; Test Date : Jan 9, 2019

Drawing No. Test Certificate 049-18, Test Report ISO 19921 Fire Resistance of Branch Connector Sch10 - FKM

Testing Facility: Internationale Hydraulik Akademie Gmbh, Am Promigberg 26 D-01108 Dresden - Weixdorf ; Test Date : Aug 7, 2019

Drawing No. Test Certificate 050-18, Test Report ISO 19921 Fire Resistance of Branch Connector Sch10 - EPDM

Testing Facility: Internationale Hydraulik Akademie Gmbh, Am Promigberg 26 D-01108 Dresden - Weixdorf ; Test Date : Aug 7, 2019

Drawing No. Test Report 120005269, Test Report ASTM A53/A53M;

Testing Facility : Viega Technology Gmbh & Co. KG ; Test Period : June - Dec 2018

Term of Validity

This Product Design Assessment (PDA) Certificate 19-HS1867105-PDA-DUP, dated 17/Jun/2019 remains valid until 16/Jun/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

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

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

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

2019 Mobile Offshore Units Rules: 4-2-1/5, 4-2-1/11.13

2019 Rules for Conditions of Classification, Part 1 - 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/Rev.4 2016

ISO 19921:2005

IACS Burst test 18 Sept 08

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



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

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 07-Jul-2021 8:26

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.