



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 12/NOV/2019. 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 05/NOV/2020 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): NUMEPRESS stainless steel pipes and associated couplings / fittings

Presented to:

ISOTUBI SL
C/ MECANICA 6
CASTELLBISBAL,
B-59806794
Spain

Intended Service:

Pipes with associated couplings on Marine and Offshore Installations.

Description:

Stainless steel welded pipes connected with press-type couplings incorporating o'ring seals / gaskets.

Ratings:

Design Pressure 16 bar. Design Temperature Range: 0 deg C to +120 deg C. The material specification and the scantlings of the pipes are included in the attachment of the certificate. The material specification, the scantlings and the type of the pipe couplings / fittings are included in the attachment of the certificate.

Service Restrictions:

1. Unit Certification is not required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. 2. The pipes and associated pipe couplings and fittings may be used in Class III service air (non-essential), sanitary, steam and condensate piping systems. 3. The pipes and associated pipe couplings of sizes between 15 mm and 88.9 mm may be used in fire main, water spray and sprinkler systems, provided the pipe couplings are fitted in accessible locations at all times under normal condition. 4. The pipes and associated pipe couplings and fittings are not to be used for suction lines.

Comments: 1. The manufacturer has provided a declaration about the control of, or lack of asbestos in this product. 2. The approval is only valid when the couplings are assembled with tubing of correct temper and tolerances as recommended by the manufacturer. 3. Piping with mechanical joints is to be adequately adjusted, aligned and supported. Supports or hangers are not to be used to force alignment of piping at the point of connection, as per 4-6-2/5.9.1(j) of the Steel Vessels Rules. 4. The installation of mechanical joints is to be in accordance with the manufacturer's assembly instructions. Special tools and gauges required for installation of the joints are to be specified and supplied (as necessary) by the manufacturer, as per 4-6-2/5.9.1(n) of the Steel Vessels Rules. 5. Pipe penetrations through watertight or fire tight or gas tight boundaries shall be approved in each separate case. 6. The application and installation of the pipes and associated couplings / fittings are to be in accordance with the manufacturer's specifications and instructions and are to be specifically approved in connection with the relevant piping system.

Notes / Documentation: 1. Product catalogue of stainless steel tubes and fittings (revision 16), catalogue of Numepress-Sch fittings / couplings. 2. Drawing "COTAS-NUMEPRESS-Y-SCH". 3. Quality plans nos. PC-A01 Rev. 3, PC-TT16 Rev. 3 and PC-TT17 Rev. 3. 4. ABS Valencia Survey Report no. VN2579073 dated 02 June 2014 (for burst, vibration and pressure pulsation tests of couplings). 5. ABS Hamburg Survey Report no. HG2928221 dated 02 July 2015 and Messrs Dr.-Ing. T. Baumer GmbH test reports nos. IBB 1404, IBB 1406, IBB 1408, IBB 1410, IBB 1412 and IBB 1414 dated 02 July 2015 (for fire endurance tests of couplings). 6. DNV test reports dated 02-12-2009 (for burst, vibration and pressure pulsation tests of couplings and testing of pipes). 7. BOSE test report no. 24446.09 (for pull out test of couplings) and 25436.09 (for testing of pipes). 8. ATISAE test reports of couplings nos. 2006/B0015/01 Rev. 1, 2006/B0015/02 Rev. 1, 2006/B0015/03 Rev. 1, BA-MEN080007/1 Rev. 0, BA-MEN080007/2 Rev. 0, BA-MEN080007/3 Rev. 0, BA-MEN080007/4 Rev. 0, BA-MEN080007/5 Rev. 0, BA-MEN080007/6 Rev. 0, BA-MEN080007/7 Rev. 0, BA-MEN-080012/1 Rev. 0, BA-MEN-080012/N1 Rev. 0, BA-MEN-080012/2 Rev. 0. 9. Test reports of vacuum tests for the couplings, in accordance with 4-6-2/5.9.2(e)(v)7 of the Steel Vessels Rules, have not been submitted.

Term of Validity: This Product Design Assessment (PDA) Certificate 15-PR1438892-PDA, dated 06/Nov/2015 remains valid until 05/Nov/2020 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: The Rules for Condition of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: - Steel Vessel Rules (2015): 4-6-2/3.1.1, 4-6-2/5.9, 4-7-3/1.11.1. - Steel Vessel Under 90 M in Length (2015): 4-4-2/5.3, 4-4-2/13.7, 4-5-1/3.1. - Offshore Supply Vessel Rules (OSV) (2015): 4-6-2/3.1.1, 4-6-2/5.9, 4-7-3/1.11.1. The Rules for Condition of Classification, Part 1 2015 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: - Mobile Offshore Drilling Units Rules (2015): 4-2-2/5.1, 6-1-6/5.1.7, 5-2-2/1.3.5.

National Standards:


International Standards: EN 10312:2002, EN 10217-7:2005, ISO 19921:2005, ISO 19922:2005.

Government Authority:

EUMED:

Others: IACS Unified Requirements P2.7.4 (Rev.7), P2.11 (Rev.3)

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	15-PR1438892-PDA	15/NOV/2015	05/NOV/2020



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.