



CERTIFICATE NUMBER  
17-HS1620179-PDA

DATE  
05 Apr 2017

ABS TECHNICAL OFFICE  
Houston ESD - Ship Equipment

## CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of  
**BAR HYDRAULICS, INC.**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Hydraulic, High Pressure Hydraulic Piping System**

Model: **Barconn Non-Welded 0.5", 0.75", 1", 1.25", 1.5", and 2" High Pressure System**

This Product Design Assessment (PDA) Certificate 17-HS1620179-PDA, dated 05/Apr/2017 remains valid until 04/Apr/2022 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.

AMERICAN BUREAU OF SHIPPING

Tim Kimble  
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5 9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

**BAR HYDRAULICS**

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**Tier: 2 - PDA Issued**

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**Product:** Hydraulic, High Pressure Hydraulic Piping System**Model:** Barconn Non-Welded 0.5", 0.75", 1", 1.25", 1.5", and 2" High Pressure System**Intended Service:**

Marine and Offshore Applications - Hydraulic Systems, Lubrication Systems, Grease Systems

**Description:**

Pipe-to-flange hydraulic connection is maintained via a 10 ° flare at the end of the pipe.

Component connection is made using a SAE J518 CD62 flange pad.

**Rating:**

5000 psi @ 130 °F

**Service Restriction:**

Unit Certification is required for this product.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product

Testing of the piping before and after installation is to be in accordance with the requirements of 4-6-2/7.3.1 and 7.3.3 of the 2017 Steel Vessels Rule to the satisfaction of the attending Surveyor.

**Notes/Drawing/Documentation:**

Declaration of Conformity - Bar Hydraulics - 2017, Revision: -, Pages: 1

Supporting Documentation (previous task 876954):

Drawing No. 0.5-PTP Rev. A, 0.5" High Pressure Pipe to Pipe Assembly (6 shts);

Drawing No. 0.75-PTP Rev. A, 0.75" High Pressure Pipe to Pipe Assembly (6 shts);

Drawing No. 1-PTP Rev. A, 1" High Pressure Pipe to Pipe Assembly (6 shts);

Drawing No. 1.25-PTP Rev. A, 1.25" High Pressure Pipe to Pipe Assembly (6 shts);

Drawing No. 1.5-PTP Rev. A, 1.5" High Pressure Pipe to Pipe Assembly (6 shts);

Drawing No. 322399-PTP Rev. A, 2" High Pressure Pipe to Pipe Assembly (6 shts);

Calculations for the High Pressure Barconn System (11 shts);

ABS Survey Report TO749982 dated 20 Sept. 2006 (2 shts).

**Terms of Validity:**

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**STANDARDS**

**BAR HYDRAULICS**

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**ABS Rules:**

2017 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/5.9, and 4-6-7/3.5

2017 Mobile Offshore Drilling Unit Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-2, 4-2-6/1, and 4-2-6/3

**National:**

SAE Standard J518:2013, ASME B31.3:2016

**International:**

ISO 6162-2:2012

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA