



CERTIFICATE NUMBER

DATE

02-HS269945D-3-PDA

16 June 2011

ABS TECHNICAL OFFICE

Houston SED - Ship Systems

## CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**TUBE-MAC INDUSTRIES LTD. - STONEY CREEK**

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: **Pipe Coupling**

MODEL: **DM20, DM60 and DM80**

This Product Design Assessment (PDA) Certificate 02-HS269945D-3-PDA, dated 16/Jun/2011 remains valid until 15/Jun/2016 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

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).

**TUBE-MAC INDUSTRIES LTD.**

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Canada  
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**MA Certificate No.**            09-TO1613275-X

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**Product:**            **Pipe Coupling**

**Model:**            **DM20, DM60 and DM80**

**Intended Service:**

Marine & Offshore Application - Air, Oil, Water, Sea Water & Steam Piping Systems

**Description:**

Pyplok Pipe Couplings - Swaged Mechanically attached Pipe and Tube Pressure Fittings.

**Ratings:**

Model: DM20 Series (½" to 2" NPS)

Model: DM60 Series (½" to 2" O.D. Tube)

Model: DM80 Series (6mm to 60mm O.D. Tube)

Rating: 3750 psi

**Service Restrictions:**

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

**Comments:**

The Mechanical Joint Applications are to be in accordance with 4-6-2/Table 10 of the Rules.

**Notes / Drawings / Documentation:**

Identification Data:

Stork Garwood Laboratory Cert. No: C5126, Rev. N/C, 31Jul 09;  
Stork Garwood Laboratory Cert. No: C7513A, Rev. N/C, 1 Aug 09;  
Stork Garwood Laboratory Cert. No: C5126C, Rev. N/C, 1 Aug 09;  
Stork Garwood Laboratory Cert. No: C5126D, Rev. N/C, 1 Aug 09;  
Stork Garwood Laboratory Cert. No: C5126E, Rev. N/C, 1 Aug 09  
Stork Garwood Laboratory Cert. No: C7513C, Rev. N/C, 1 Aug 09;  
Stork Garwood Laboratory Cert. No: C7513D, Rev. N/C, 1 Aug 09;  
Stork Garwood Laboratory Cert. No: C7513E, Rev. N/C, 1 Aug 09  
Stork Garwood Laboratory Cert. No: C5126B, Rev. N/C, 31Jul 09;  
Stork Garwood Laboratory Cert. No: C7513B, Rev. N/C, 1 Aug 09;  
SwRI Project No. 01.14432.01.205a, 27Apr 09;  
SwRI Project No. 01.14432.01.205b, 19 May 09;  
PYPLOK DNV Type Test Programme, 100 pgs  
PYPLOK - 2011 SVR - ABS Type Approval Test Plan & Results. 26 pgs

**Term of Validity:**

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**STANDARDS**

**ABS Rules:**

2011 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 4-6-2/5.5.6, 4-6-2/5.9

**National:**

ASME B31.1 & 31.3

**International:**

NA

**Government Authority:**

NA

**EUMED:**

NA

**Others:**

None