



CERTIFICATE NUMBER

10-HS625492-PDA

DATE

23 September 2010

ABS TECHNICAL OFFICE

Houston SED - Ship Systems

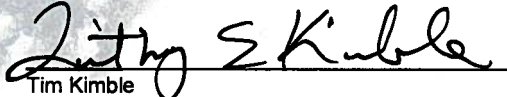
CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
US HOSE CORPORATION - ROMEOVILLE

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. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Hose Assemblies
MODEL: 401H
ABS RULE: 2010 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3, 4-6-2/5.7.1 & 4-6-2/ 5.5.5; 2006 Steel Vessels Rules (90m) 4-4-1/9.19
OTHER STANDARD: None;

AMERICAN BUREAU OF SHIPPING


Tim Kimble

Engineering Type Approval Co-ordinator

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).

US HOSE CORPORATION

815 FORESTWOOD DRIVE
ROMEDEVILLE
IL 60446
United States
Telephone: 413-374-3237
Fax: 815-886-4550

Product: Hose Assemblies

Model: 401H

Intended Service:

Marine & Offshore Application, Fuel Oil, Lubricating Oil, Oil & Water System for Marine Equipments

Description:

Stainless Steel Corrugated Hose Size - 1.25" (31.75 mm) with one Stainless Steel Braid.

Ratings:

Operating Temperature: -40 °C to 100°C (-40°F to 212°F);

Maximum Operating Pressure: 512 psi (35.3 bar);

Burst Pressure Tested: 3300 psi (227.5 bar) at Room Temperature;

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.

Comments:

- 1) Hoses are to be complete with Factory Assembled End Fittings or Factory Supplied End Fittings installed in accordance with Manufacturer's Specifications.
- 2) End Connections are to comply with applicable requirements and limitation of Rules (4-6-2/5.5.4, 4-6-2/5.5.5, 4-6-7/3.5.1, 4-6-7/5.3.2).
- 3) Hose Assemblies are to be installed only where flexibility is required, in clearly visible and readily accessible locations, and are not to be subject to torsional deflection under normal conditions; Hose Length is to be limited to that required by flexibility only.
- 4) Not to be used in High Pressure Fuel Oil Injection Systems, Steam Systems.
- 5) Not to be used for installations where repeated and/or frequent flexing is expected.
- 6) Flexible Hoses are to be permanently marked by the Manufacturer as per 4-6-2/5.7.6 of the Rules.

Notes / Drawings / Documentation:

This Product Design Assessment (PDA) is valid only 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.

Term of Validity:

This Product Design Assessment (PDA) Certificate 10-HS625492-PDA, dated 23/Sep/2010 remains valid until 22/Sep/2015 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.

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ROMEOVILLE

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STANDARDS

ABS Rules:

2010 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3, 4-6-2/5.7.1& 4-6-2/ 5.5.5; 2006 Steel Vessels Rules (90m)
4-4-1/9.19

National:

NA

International:

NA

Government Authority:

NA

EUMED:

NA

Others:

None