



## *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 25-MAR-2024. 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 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:** Pipe Coupling  
**Model Name(s):** Style 38 and Style 40

**Presented to:**  
DRESSER PIPELINE SOLUTIONS, NATURAL GAS SOLUTIONS NA LLC  
41 FISHER AVENUE  
PA 16701  
United States

**Intended Service:** Pipe couplings for approved applications, as per 4-6-2/Tables 10 & 11 of the Rules, in shipboard piping systems.

**Description:** Slip on couplings with removable center pin pipe stops. Sizes: 2" through 32" with 5/8 tie bolts (3-28 bolt pattern) Middle ring material AISI 1020 carbon steel or equivalent with minimum tensile stress 58 ksi and a minimum yield stress 30 ksi. Alternative material: Type 300 Series Stainless Steels with equivalent minimum tensile and yield stress. (ref. ASTM A240) Follower ring material A283, Gr. C or equivalent. Alternative material: Type 300 Series Stainless Steels with equivalent minimum tensile and yield stress. (ref. ASTM A240) Tie bolts to ASTM A307 and comply with ANSI/ASME B18.2.1 or B18.2.4.5M or equivalent. Alternative material: Type 300 Series Stainless Steels (ref. ASTM A593) Nuts to ASTM A563 or A563M and comply with ANSI/ASME B18.2.2 or B18.2.4.6M or equivalent. Alternative material: Type 300 Series Stainless Steels (ref. ASTM A594)

**Tier:** 3

**Ratings:** 300 psi for NON Fire Resistant / 275 psi for Fire Resistant - 200 °F

**Service Restrictions:** 1. 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. 2. Coupling sizes for use in specific systems are restricted to those which are in compliance with the Rule Cite tables listed below in "Standards" 3.

Location installation limitations: a) Fresh Water systems - in accessible locations only. b) Sea water cooling system - in accessible locations only and inboard of the required shell valves. c) Bilge systems - in accessible locations only and not in cargo holds or deep tanks. d) Ballast systems - in accessible locations only or when the pipelines pass through other ballast tanks. e) Cargo oil piping on oil tanker - in accessible locations, cargo tanks and pump room. f) Fuel oil transfer systems on deck and through other fuel oil tanks only. Not acceptable in oil lines in pipe duct keels. g) Lube oil transfer system on deck and through other lube oil tanks only. Not acceptable in oil lines in pipe duct keels. i) Compressed air systems - in accessible locations only. j) Sanitary systems - in accessible locations only and in board of the required shell valves. k) Potable water systems - in accessible locations only. l) Fire systems - in accessible locations only on deck and inside tanks only. (Also, see comment c) below. m) Inert gas system - on deck only. n) Vents, overflows and sounding piping of tanks to service listed above - in accessible locations provided they are not located in such a position that subsequent leakage would create hazards by way of fire, damage to electrical systems or cargo and by release of noxious or toxic vapors in enclosed spaces.

**Comments:**

a) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. b) All couplings are to have gaskets which are suitable for intended services and in accordance with manufacturer's specifications. Gaskets are to be one of the following depending on the intended service and suitability: - Grade 27 Buna S Blend - Grade 42 Buna N Blend - Fluorocarbon, Butyl - EPDM or high temperature carded glass (1200 °F). These gaskets may also be of the armored type. c) When these couplings are installed in fire fighting systems, only High temperature Carded Glass gaskets or Grade 42 Buna N Blend gaskets with the Dresser Coupling Thermal Insulating Shroud are to be used. d) The alignment and axial displacement is not to exceed values as per the manufacturer's recommendations (max, 3/8 inch). Installation to ensure that the coupling is not subject to pipe bending stresses. e) All couplings are to be provided with means to prevent slippage. This is to be accomplished by center pin pipe stops. f) The middle ring is to be made of low carbon steel or stainless steel with a minimum tensile strength of 58,000 psi, and yield strength of at least 30,000 psi. Mill certificates verifying physical properties are to be made available to the attending Surveyor upon request. g) The cent stop bolt/pins are to be stainless steel.

**Notes / Documentation:**

Drawing No. GE DRESSER STAINLESS ADD TA, GE DRESSER STAINLESS ADD TA, Revision: -, Pages: - Drawing No. 38-2886, ½ x 7 Style 38 and 40 ABS Couplings with Removable Pipe Stops. Revision: A, Pages: 1 Drawing No. 38-2889, ½ x 7 Style 38 and 40 ABS Couplings with Removable Pipe Stops, Revision: B, Pages: 1 Drawing No. 38-2938, Style 38 and 40 Fire Shroud and Marine Coupling, General Arrangement, 2" NPS Through 32" N, Revision: B, Pages: 1 Drawing No. Dresser Declaration of Conformity, Revision: -, Pages: -

**Term of Validity:**

This Product Design Assessment (PDA) Certificate 19-HS1836838-PDA, dated 26/Mar/2019 remains valid until 25/Mar/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:**

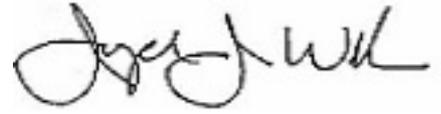
2019 Rules for Conditions of Classification, Part 1, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2019 Steel Vessels Rules 4-6-1/7, 4-6-2/5.9, 4-6-2/9.6, 4-6-4 Table 4, 4-6-2/Tables 10/11/12, 4-6-5/Table 3 2019 Marine Vessels Rules 4-6-1/7, 4-6-2/5.9, 4-6-2/9.6, 4-6-4 Table 4, 4-6-2/Tables 10/11/12, 4-6-5/Table 3

**National Standards:**

ANSI/ASME B18.2.1 or B18.2.4.5M, 2012 Edition ISO 19921 / ISO 19922 for FR couplings, 2005 Edition

**International Standards:****Government Authority:****EUMED:****Others:**

<b>Model Certificate</b>	<b>Model Certificate No</b>	<b>Issue Date</b>	<b>Expiry Date</b>
PDA	19-HS1836838-PDA	28-MAR-2019	25-MAR-2024



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.