



Confirmation of Product Type Approval

Company Name: DRESSER PIPELINE SOLUTIONS, NATURAL GAS SOLUTIONS NA LLC

Address: 41 FISHER AVENUE BRADFORD PA 16701 United States

Product: Pipe Coupling

Model(s): Style 38 and Style 40

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-2532018-PDA	09-APR-2024	08-APR-2029
Manufacturing Assessment (MA)	24-6653568	25-OCT-2024	24-OCT-2029
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

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)

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, Drawings and 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

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 08/Apr/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2024 Rules for Conditions of Classification, Part 1, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2024 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

International Standards

NA

EU-MED Standards

NA

National Standards

ANSI/ASME B18.2.1 or B18.2.4.5M, 2012 Edition

ISO 19921 / ISO 19922 for FR couplings, 2005 Edition

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read 'Joseph W. ...', is positioned above the printed name and title.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 12-Nov-2024 2:31

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 is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. 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.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

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.

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.