



CERTIFICATE NUMBER
15-HS1445598-PDA

DATE
17 Nov 2015

ABS TECHNICAL OFFICE
Houston SED Machinery - Piping
& Electrical Sys.

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
SWAGELOK COMPANY

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: **Flange Adapters**

Model: **Flange Adapters (ASME,DIN,EN & JIS)**


This Product Design Assessment (PDA) Certificate 15-HS1445598-PDA, dated 17/Nov/2015 remains valid until 16/Nov/2020 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, Codes, standards or other criteria of ABS or a statutory, industrial or manufacturer's standard. 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-A.3/3 9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

SWAGELOK COMPANY

31400 AURORA ROAD

Solon OH

United States 44139-3492

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Email: marketing@swagelok.com

Web: www.swagelok.com

Tier: 3 - Type Approved, unit certification not required

Product: Flange Adapters

Model: Flange Adapters (ASME,DIN,EN & JIS)

Intended Service:

Marine & Offshore Applications - Tubing / Piping Systems

Description:

Flange Types meet ASME, DIN, EN & JIS Standard. For specific details see attached "pdf" Page 3, 4 & 5 of Swagelok Catalog MS-02-200.

Rating:

For specific details on ANSI, DIN, EN & JIS Flange Ratings, Connections, Features & Material refer to the latest Swagelok Catalog MS-02-200

Stainless Steel Size 1/16" to 2" (2-50mm)

Alloy 400 Size 1/8" to 1" (3-25mm)

Service Restriction:

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.

Brass fittings are not to be used in oil systems.

Comments:

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

For your ready reference find here the link to the Swagelok Catalog that defines the Pressure Ratings, <http://www.swagelok.com> then search for MS-02-200. ABS has no control on the content and any questions are to be deferred to ABS for resolution.

Notes/Drawing/Documentation:

02-200R4 FlangeAdapters (Swagelok Flange Adapters)

01-140R12 TubeFittings (Gaugeable Tube Fittings and Adapter Fittings)

02-10R4_SpecialAlloys (Special - Alloy, Fluid System Components)

Terms of Validity:

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STANDARDS

ABS Rules:

Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the

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following:

Steel Vessels Rules 4-6-1/7.5.2, Table 1 & 2, 4-6-2/5.9;

2015 ABS Rules for Conditions of Classification, Part 1 – 2015 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

Mobile Offshore Drilling Units 4-2-2/1.3, 5.9, 11.1, 17. 4-2-4/1.3, 11.1, 17;

2015 Steel Vessels Under 90 Meters Rules, 4-1-1/3.3 & 4-7-1/5.39;

2015 Offshore Support Vessels Rules, 4-1-1/3.3, 4-6-1/7.1.2, 4-6-2/5.9;

National:

ASME B16-5 (2003), ASTM F 1387 (2012)

International:

DIN EN 1092-1, EN 1092-1 (2008); JIS B 2220 (2004)

Government:

NA

EUMED:

NA

OTHERS:

Swagelok Catalog MS-02-200 (Oct.09)

