



Confirmation of Product Type Approval

Company Name: SWAGELOK COMPANY

Address: 31400 AURORA ROAD OH 44139-3492 United States

Product: Flange Adapters

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

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	20-2058517-PDA	09-DEC-2020	08-DEC-2025
Manufacturing Assessment (MA)	20-4487492	20-OCT-2020	01-NOV-2025
Product Quality Assurance (PQA)	NA	NA	NA

Tier

5 - Unit Certification Required

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.

Ratings

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 Restrictions

Unit Certification is not required for this product. If the manufacturer or purchaser requests 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 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 over the content and any questions are to be deferred to ABS for resolution.

Where indicated as 'permanent' in 4-6-1/7.1.4 TABLE 2 of the Marine Vessels Rules, the flange adapter is to bear permanent identification, such as the manufacturer's name or trademark, the standard of compliance, material identity, pressure rating, etc., as required by the standard of compliance or the manufacturer's specification. Such markings may be cast or forged integral with, stamped on, or securely affixed by the nameplate on the component, and are to serve as a permanent means of identification of the component throughout its service life.

Notes, Drawings and Documentation

Declaration no design changes to Swagelok tube fittings

02-200R4_FlangeAdapters (Swagelok Flange Adapters)

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

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 08/Dec/2025 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

The Rules for Conditions of Classification, 2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3,1-1-A4, which covers the following:

2020 Rules for Building and Classing Marine Vessels: 4-6-1/Table 1 & 2, 4-6-1/7.1, 4-6-1/7.5.2, 4-6-2/5.5, 4-6-2/5.9, 4-6-2/Table 6 & 7.

The Rules for Conditions of Classification, Offshore Units and Structures, 2020 Mobile Offshore Units 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2020 Rules for Building and Classing Mobile Offshore Units: 4-2-1/11.11, 4-2-2/1.3, 4-2-2/11, 4-2-2/15.

International Standards

DIN EN 1092-1 (2018); JIS B 2220 (2012)

EU-MED Standards

NA

National Standards

ASME B16-5 (2017), ASTM F1387-19 (2019)

Government Standards

NA

Other Standards

Swagelok Catalog MS-02-200, R6, October 2017



A handwritten signature in blue ink, appearing to read "Joseph W. White".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 11-Dec-2020 8:19

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.