



CERTIFICATE NUMBER

05-HG481281-2-PDA

DATE

10 October 2013

ABS TECHNICAL OFFICE

Hamburg Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
VOSS FLUID GMBH - D-51688 WIPPERFUERTH

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: **Tube Coupling**

MODEL: **VOSSFormSQR**


This Product Design Assessment (PDA) Certificate 05-HG481281-2-PDA, dated 10/Oct/2013 remains valid until 09/Oct/2018 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


Wulf-Peter Senebald
Engineer

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).

VOSS FLUID GMBH

LUEDENSCHIEDER STR. 52-54
D-51688 WIPPERFUERTH
Germany
Telephone: 49-2267-635657
Fax: 49-2267-639657
Email: fluid@voss.de
Web: www.voss.de

MA Certificate No. 10-HN1778758-X

Product: Tube Coupling

Model: VOSSFormSQR

Intended Service:

For use in steel piping systems.

Description:

Couplings' body, nut and clamping ring made of steel/stainless steel, sealing made of FPM or equivalent.
Preparation of pipe ends by use of VOSSForm100 pre-assembly machine.

Ratings:

Two (2) ranges of couplings (L and S) cover a pressure range up to 800 bar.
Serie L: (light) 6 - 10 mm PN 500 bar, 12 - 18 mm PN 400 bar, 22 - 42 mm 250 bar.
Serie S: (heavy) 6 - 10 mm PN 800 bar, 12 - 16 mm PN 630 bar, 20 - 38 mm 420 bar.

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. Coupling types with tapered pipe threads are not to be used for toxic and corrosive fluid services and for all services of temperatures exceeding 495°C. In Classes I and II piping systems in general, for joining sections of hydraulic pipes and for steering gear-, controllable pitch propeller- and propulsion related hydraulic systems their use is limited to the following restrictions: 6 mm to 20 mm OD for 103 bar; 22 mm to 25 mm OD for 82.8 bar; 28 mm to 42 mm OD for 41.4 bar. In other hydraulic oil systems they may be used without pressure limitation only for connection to equipment, such as pumps, valves, cylinders, accumulators, gauges and hoses. Straight-thread O-ring type fittings may be used for connections to equipment in hydraulic oil piping, without pressure and service limitation, but are not to be used for joining sections of pipes.

Comments:

For pressure ratings higher than the maximum working pressures specified in Section 5.5/Table 1 of DIN EN ISO 8434-1:2008 and for dynamic conditons, the manufacturer shall be consulted as indicated therein.
The application and installation of the couplings is to be in accordance with manufacturer's specifications and instructions and is to be approved in conjunction with the relevant systems. Special tools and gauges required for installation of these pipe couplings are to be specified and supplied as necessary by the manufacturer. These special tools are to be kept onboard.

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.

Reports:

WTD 71 Fire Test Report 61070/105 to 61070/108.
IMA Dresden, Test Report No. C101/06, dated: 07 December 2006.
Voss Examination Report: AEL 225/05/1, dated 23 December 2005.
Voss Examination Report: AEL 214/06/1, dated 23 November 2006.
Test Report No. 2011-328-1, dated: 22 February 2012.

Term of Validity:

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STANDARDS**ABS Rules:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are:

2013 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3. 4-6-1/7.1.2, 4-6-2/5.5.5/5.9/9.6

National:

DIN 3861, DIN 3870

International:

ISO 8434-1

Government Authority:

NA

EUMED:

NA

Others:

IACS UR P2.11