



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
HB20PTB00056

型式认可证书
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

Volz Gruppe GmbH

地址/Address

Gartenstrasse 6, 78586 Deilingen, Germany

产品名称/Product

管系附件
Piping Fitting
机械接头
Mechanical Joint

认可标准/Approval Standard

- 中国船级社《钢质海船入级规范》（2018）及其修改通报第3篇第2章
Chapter 2, Part Three of China Classification Society Rules for Classification of Sea-Going Steel Ships 2018 and its Amendments

用于/Intended for

船舶与海上设施/Ships and Offshore Installations
适用范围详见备注/Refer to "Remarks" for Application of Product

产品明细/Product Description

机械接头/Mechanical Joint (M0001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Refer to attachment	
型号/Type	Refer to attachment	

批准的图纸/Approved Drawings

图纸批准号/Drawings Approval No.: HB11A00024

证书有效期至/This Certificate is valid until 2024年09月18日/Sep. 18,2024

发证机构/Issued by 中国船级社汉堡分社
CCS Hamburg Branch

签发日期/Date 2020年09月23日
Sep. 23,2020

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Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P020-84209235

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 12 0016 0 95
 试验报告日期/ Test Report Date : 1995-09-27
 试验单位/ Laboratory: MPA NRW
 试验单位地址/ Test Address: Marsbruchstr. 186, 44287 Dortmund-Aplerberk, Germany

试验报告编号/ Test Report No. : Re-assembly 24. 09. 2008
 试验报告日期/ Test Report Date : 2008-09-24
 试验单位/ Laboratory: Salzgitter Mannesmann Forschung
 试验单位地址/ Test Address: Ehinger Strasse 200, 47259 Duisburg, Germany

试验报告编号/ Test Report No. : F608012
 试验报告日期/ Test Report Date : 2009-02-02
 试验单位/ Laboratory: Salzgitter Mannesmann Forschung
 试验单位地址/ Test Address: Ehinger Strasse 200, 47259 Duisburg, Germany

试验报告编号/ Test Report No. : F608013
 试验报告日期/ Test Report Date : 2011-02-16
 试验单位/ Laboratory: Salzgitter Mannesmann Forschung
 试验单位地址/ Test Address: Ehinger Strasse 200, 47259 Duisburg, Germany

试验报告编号/ Test Report No. : F 6 11 005
 试验报告日期/ Test Report Date : 2012-06-29
 试验单位/ Laboratory: Salzgitter Mannesmann Forschung
 试验单位地址/ Test Address: Ehinger Strasse 200, 47259 Duisburg, Germany

试验报告编号/ Test Report No. : F608010
 试验报告日期/ Test Report Date : 2009-02-02
 试验单位/ Laboratory: Salzgitter Mannesmann Forschung
 试验单位地址/ Test Address: Ehinger Strasse 200, 47259 Duisburg, Germany

认可后的产品检验方式/ Method of Product Inspection after Approval

按规范只认可不进行产品检验的产品/The product approved only in term of the rules:
 认可后的产品检验由制造厂按本社批准的产品检验计划进行检验, 经检验合格后由制造厂签发合格证明, 并连同该产品的本社认可证书复印件一并交付用户, 制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。
 After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内，本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核，以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 如果属于获得型式认可B 模式证书，且无需颁发船用产品证书/等效证明文件的情况，证书获得者应接受本社每年一次的定期审核，定期审核日为认可证书期满之日对应的每一周年日，检查工作应在周年日的前后三个月内进行。

If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

备注/Remarks

1. 本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society.

However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

2. 本证书由原型式认可证书 (No. HB17T00045) 换新并替代原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No. HB17T00045.

3. 机械接头的安装应遵从制造厂指导。

The installation of mechanical joints is to be in accordance with the manufacturer's assembly instructions.

4. 机械接头安装所需的机器, 专用工具和仪表应由制造厂认可。

All assemblies must be made with machines/special tools/gauges that are approved by manufacturer.

5. 管件预制和安装应由经制造厂培训和授权人员进行。

Tube preparation and final installation must be conducted by personal which is trained and currently certified by manufacturer.

6. 产品适用范围

Application of the Product

6.1 本认可的机械接头使用范围应符合中国船级社《钢质海船入级规范》(2018)及其修改通报第三篇第二章第5节表2.5.3.1(2)和2.5.3.1(3)的要求。

These mechanical joints may be used in the system as specified in Table 2.5.3.1(2) and Table 2.5.3.1(3) of Section 5, Chapter 2, Part III of China Classification Society Rules for Classification of Sea-Going Steel Ships (2018) and its Amendments.

6.2 机械接头的材料应与所连接的管子以及内外部介质相适应。

Material of mechanical joints is to be compatible with the piping material and internal and external media.

6.3 该认可的机械接头不应用于下列场合:

Mechanical joints may not be used in the following cases:

(1) 穿过压载水舱和燃料舱的舱底水管系。

Bilge piping through ballast tanks and fuel tanks;

(2) 穿过货舱和燃料舱的海水和压载管系, 包括空气和溢流管系;

Sea water and ballast piping (including air and overflow pipes) through cargo holds and fuel tanks;

(3) 穿过机器处所、货舱和压载舱的燃料和油类管系, 包括空气和溢流管路;

Fuel and oil piping (including air and overflow pipes) through machinery spaces, cargo holds and ballast tanks;

(4) 压力水雾系统中的非注水管(干管系统)。

Non-water filled pressure water spraying systems (dry pipe systems).

中国船级社汉堡分社

CCS Hamburg Branch

注: 本证书含有附页, 共1页

Note: The certificate is attached with additional 1 page(s)

Particulars of Product

1, Product Description:

- 1) Compression couplings, LL- (Very light), L- (Light) and S- (Heavy) series, made of Stainless steel, as per Volz Catalogue 04/2015, Pages 18 to 163, not including 37° Flare Tube Adapters.
- 2) Compression couplings, LL- (Very light), L- (Light) and S- (Heavy) series, made of Carbon steel, as per Volz Catalogue 08/2014, Pages 18 to 161, not including 37° Flare Tube Adapters.

Type and Material	Model	Tube O.D. (mm)	Nominal Pressure (PN) (bar)	Design Temperature
a. Compression couplings, made of Stainless steel, as per Volz Catalogue 04/2015, Pages 18 to 163, not including 37° Flare Tube Adapters.	LL	4 - 8	100	Temperature range depends on the sealing ring material as follows: FPM (Viton) : -25 to 200 °C PTFE (teflon): -60 to 200 °C NBR: -30 to 120 °C
	L	6 - 10	500	
		12 - 18	400	
		22 - 42	250	
b. Compression couplings, made of Carbon steel, as per Volz Catalogue 08/2014, Pages 18 to 161, not including 37° Flare Tube Adapters.	S	6 - 10	800	
		12 - 16	630	
		20 - 38	420	

Note: Mechanical joints with non-metallic components (sealing ring) are not to be used for fire safe applications.

2, Normal working pressure defined at 20°C, for stainless steel couplings working in high temperature condition, pressure should be reduced as below:

Temperature (°C)	Reduction
+50	4.5%
+100	11%
+200	20%
+300	29%
+400	33%

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