

中国船级社 CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No. GB22PTB00003 01

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

Mann Teknik AB

地址/Address

Strandvagen 16, SE-542 31 Mariestad, Sweden

产品名称/Product

拉斯阀 Breakaway couplings 低温拉断阀 Cryogenic Breaking Valve

附加标志/Notations

无/Nil.

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》(2021)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 2021 and its Amendments

2. 中国船级社《散装运输液化气体船舶结构与设备规范》(2018)及其修改通报第3篇第5,6章

Chapter 5 and 6, Part Three of China Classification Society Rules for construction and equipment of ships carrying liquefied gases in bulk 2018 and its Amendments

3. 中国船级社《液化天然气燃料加注船舶规范》(2015)第4章

Chapter 4 of China Classification Society Rules for LNG Bunkering Ship 2015

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

证书有效期至 his Certificate is valid until

2026年05月26日/May. 26,2026

发证,如45厘船级在高级上。 Issued by Continuous Office 签发日期 2022年05月26日 Date May. 26,2022

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体,必须同时使用。纸质证书每页均须由本社盖章方为有效,电子证书含数字签名方为有效,本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时,可以向我社检验机构咨询。This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.



UTN:P022-38186781

产品明细/Product Description

低温拉断阀/Cryogenic Breaking Valve (M0001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Powered Emergency Release Couplings	
型号/Type	PERC	
公称压力/Nominal Pressure	25	bar
公称直径/Nominal Diameter	DN65, DN80, DN100, DN150, DN200, DN250	
适用温度/Applicable Temperature	−196 ° C to +85 ° C	
适用介质/Applicable Medium	Liquified Natural Gas	
阀体材质/Valve Body Material	Stainless Steel, refer to the approved	
	drawings	

低温拉断阀/Cryogenic Breaking Valve (M0002)

名称/Name	属性 (值) /Value	单位/Unit
产品名称/Product Name	Cryogenic Breakaway Couplings	
型号/Type	CBC	
公称压力/Nominal Pressure	25	bar
公称直径/Nominal Diameter	DN50, DN80, DN100	
适用温度/Applicable Temperature	-196° C to +85° C	
适用介质/Applicable Medium	Liquified Natural Gas	
阀体材质/Valve Body Material	Stainless Steel, refer to the approved	
	drawings	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No.: NP21PPP04828_1, NP21PPP04912, NP22PPP01260

产品认可试验报告/ Approval Test Report

试验报告编号/Test Report No.: CBC DN25 NC124D44 Breaking test

试验报告日期/ Test Report Date: 2022-03-11

试验报告编号/Test Report No.: CBC DN25-DN150 160620 Cryo Breakaway Coupling DNV type approval test

试验报告日期/ Test Report Date: 2016-06-20

试验报告编号/Test Report No.: CBC DN100 NC564D44 Breaking test

试验报告日期/ Test Report Date: 2022-03-11

试验报告编号/Test Report No.: CBC DN25-DN150 160825 Cryo Breakaway Coupling DNV type approval test

试验报告日期/ Test Report Date: 2016-08-25

试验报告编号/ Test Report No.: 11B0ZMWB-2 试验报告日期/ Test Report Date: 2019-01-25

试验报告编号/ Test Report No.: CBC PERC DN25 NC104D44 Medium impact test

试验报告日期/ Test Report Date: 2022-03-11

试验报告编号/ Test Report No.: CBC PERC DN50 NC211D44 Drop test

试验报告日期/ Test Report Date: 2022-03-11

试验报告编号/Test Report No.: CBC PERC DN100-150 NC563D44 NC6100D44 Tightness test Strength test at

minimum working temperature

试验报告日期/ Test Report Date: 2016-08-25

试验报告编号/Test Report No.: CBC PERC DN200 NCP8105D44 Drop test

试验报告日期/ Test Report Date: 2022-03-11

试验报告编号/Test Report No.: CBC PERC DN250 NCP10162E-D Medium impact test

试验报告日期/ Test Report Date: 2022-03-16

试验报告编号/Test Report No.: DCC Reg CBC DN25-150 MC333A44 MC645A44 NC123A44 NC333A44 NC645A44 Tightness test at minimum working temperature

试验报告日期/ Test Report Date: 2013-01-04

试验报告编号/Test Report No.: DCC Reg CBC DN50 DN150 Type approval test report for Mann Teknik DCCouplings and CBCouplings 2012-11-02

试验报告日期/ Test Report Date: 2012-11-02

试验报告编号/Test Report No.: DCC Reg CBC DN50 DN150 Type approval test report for Mann Teknik

DCCouplings and CBCouplings 2012-11-30 试验报告日期/ Test Report Date: 2012-11-30

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

按规范认可后应进行产品检验的产品/The product should be inspected in term of the rules: 认可后的产品检验应由本社验船师根据本社规范规定按批准的产品检验计划进行检验,经检验合格后由本社颁发船 用产品证书。

After approval, product inspection should be carried out by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Marine Product Certificate will be issued by the Society upon satisfactory inspection.

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. 本证书认可产品不得用于IGC规则所述的应急截止(ESD)阀。

The product approved by this certificate shall not be intended for emergency shutdown (ESD) valves as described in the IGC Code.

3. 本证书认可产品应按照制造厂要求安装。

The product approved by this certificate shall be installed according to the manufacturer's instructions.

4. 本证书认可产品所用致断螺栓应满足设计要求。

The breaking bolt of the product approved by this certificate shall comply with the design requirement.

中国船级社哥德堡办事处

CCS Gothenburg Office