



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
DL21PTB00036

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

美嘉诺阀门（大连）有限公司  
Meca-Inox Valves Co., Ltd.

地址/Address

辽宁省大连经济技术开发区淮河西路30-1, 2号  
No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

产品名称/Product

阀  
Valve  
低温球阀  
Cryogenic Ball Valve

认可标准/Approval Standard

- 中国船级社《钢质海船入级规范》（2022）及其变更通告 第3篇第2章  
Chapter 2, Part Three of China Classification Society Rules for the Classification of Sea-going Steel Ships 2022 and its Change Notices
- 中国船级社《散装运输液化气体船舶构造与设备规范》（2022）及其变更通告第3篇第5章  
Chapter 5, Part Three of China Classification Society Rules for Construction and Equipment of Ships Carrying Liquefied Gases in Bulk and its Change Notices
- 中国船级社《船舶应用天然气燃料规范》（2021）及其变更通告第13章  
Chapter 13 of China Classification Society Rules for Ships Using Natural Gas Fuels 2021 and its Change Notices

用于/Intended for

船舶/Ships

产品明细/Product Description

低温球阀/Cryogenic Ball Valve (M0001)

名称/Name	属性（值）/Value	单位/Unit
型号/Type	见附页 See additional page(s)	
公称压力/Nominal Pressure	见附页 See additional page(s)	
公称直径/Nominal Diameter	见附页 See additional page(s)	
适用介质/Applicable Medium	见附页 See additional page(s)	

证书有效期至/This Certificate is valid until 2026年08月07日/ Aug. 07,2026

发证机构/Issued by 中国船级社大连分社  
CCS Dalian Branch

签发日期/Date 2022年08月08日  
Aug. 08,2022

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，可以向本社检验机构咨询。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.



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:P022-43385499

适用温度/Applicable Temperature	见附页 See additional page(s)	
阀体材质/Valve Body Material	见附页 See additional page(s)	
设计压力/Design Pressure	见附页 See additional page(s)	

## 批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : DL21PPP20167

## 产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : W20220400285

试验报告日期/ Test Report Date : 2022-06-16

试验单位/ Laboratory: 大连产品质量检验检测研究院有限公司 Dalian Product Quality Inspection and Testing Institute Co.,Ltd.

试验单位地址/ Test Address: 大连市经济技术开发区铁山东路102号 No. 102, Tieshan East Road, Dalian Economic and Technological Development Zone

试验报告编号/ Test Report No. : W20220400286

试验报告日期/ Test Report Date : 2022-06-16

试验单位/ Laboratory: 大连产品质量检验检测研究院有限公司 Dalian Product Quality Inspection and Testing Institute Co.,Ltd.

试验单位地址/ Test Address: 大连市经济技术开发区铁山东路102号 No. 102, Tieshan East Road, Dalian Economic and Technological Development Zone

试验报告编号/ Test Report No. : W20220400287

试验报告日期/ Test Report Date : 2022-06-17

试验单位/ Laboratory: 大连产品质量检验检测研究院有限公司 Dalian Product Quality Inspection and Testing Institute Co.,Ltd.

试验单位地址/ Test Address: 大连市经济技术开发区铁山东路102号 No. 102, Tieshan East Road, Dalian Economic and Technological Development Zone

试验报告编号/ Test Report No. : MIC-CCS-001

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

试验报告编号/ Test Report No. : MIC-CCS-002

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

试验报告编号/ Test Report No. : MIC-CCS-003

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

试验报告编号/ Test Report No. : MIC-CCS-004

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

试验报告编号/ Test Report No. : MIC-CCS-005

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

试验报告编号/ Test Report No. : MIC-CCS-006

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

试验报告编号/ Test Report No. : MIC-CCS-007

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

试验报告编号/ Test Report No. : MIC-CCS-008

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

试验报告编号/ Test Report No. : MIC-CCS-009

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

试验报告编号/ Test Report No. : MIC-CCS-010

试验报告日期/ Test Report Date : 2022-06-15

试验单位/ Laboratory: 美嘉诺阀门(大连)有限公司 Meca-Inox Valves Co.,Ltd.

试验单位地址/ Test Address: 辽宁省大连经济技术开发区淮河西路30-1, 2号 No. 30-1,2, Huaihe West Road, Dalian Economic and Technological Development Zone, Liaoning Province

## 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, 由于球阀上的泄压孔, 上述阀门不得用于有双向密封要求的管系。

Due to the pressure relief hole in the ball, The above-mentioned valves can not apply to piping with bi-directional tightness requirements.

3, 上述阀门不能用作紧急切断阀。

The above-mentioned valves can not be used as emergency shutdown valves.

4, 阀门所配的驱动装置的扭矩应符合批准图纸要求。

The torque of actuators used for driving the valves are subject to the requirements of approved drawings.

**中国船级社大连分社**

**CCS Dalian Branch**

注: 本证书含有附页, 共1页

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

## 产品明细

## Product Description

序号 NO.	型号 Type	公称直径 Nominal Diameter	公称压力 Nominal Pressure	设计压力 <sup>1</sup> (MPa) Design Pressure	适用介质 Applicable Medium	适用温度 (°C) Applicable Temperature	阀体材质 Valve Body Material
1	MY4	DN15	PN50	4.14 (-29~38°C)	天然气/NG 氮气/N <sub>2</sub>	-50~100	ASTM A182 316L
2		DN20					
3		DN25					
4		DN32					
5		DN40					
6		DN50					
7		DN65	PN20	1.59 (-29~38°C)			
8		DN80					
9		DN100					
10	MY4CY	DN65	PN20	1.59 (-29~38°C)	液化天然气 /LNG 液氮/LN <sub>2</sub> 天然气/NG 氮气/ N <sub>2</sub>	-196~100	ASTM A182 316L
11		DN80					
12		DN100					

注：1、压力温度关系见 ASME B16.34 中表 2-2.3 的规定

Note: 1. Design pressure should comply with the table 2-2.3 of ASME B16.34