



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
DB26PTB00008

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

Tofle Co., Inc.

地址/Address

886-1,Aza-Shiragami,Kawakami,Hagi-city,Yamaguchi-pref.Japan.

产品名称/Product

挠性软管
Flexible Hoses

认可标准/Approval Standard

- 中国船级社《钢质海船入级规范》第3篇第2章
Chapter 2, Part Three of China Classification Society Rules for Classification of Sea-Going Steel Ships

用于/Intended for

船舶/Ships

产品明细/Product Description

挠性软管组件/Flexible Pipe Set (M0001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Flexible Hoses	
型号/Type	TF-NW	
公称直径/Nominal Diameter	20 to 100A	
设计压力/Design Pressure	0.49	MPa
设计温度/Design Temperature	Max. 350	°C
本体材料/Body Material	SUS304	

挠性软管组件/Flexible Pipe Set (M0002)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Flexible Hoses	
型号/Type	TF-3000	

证书有效期至/This Certificate is valid until 2031年03月30日/Mar. 30,2031

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

签发日期/Date 2026年02月06日
Feb. 06, 2026

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。本证书凡是未注明版本的规范，其（发证时）最新版本适用于本证书。
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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:P026-46476750

公称直径/Nominal Diameter	15 to 40A	
设计压力/Design Pressure	0.49 or 3.0	MPa
设计温度/Design Temperature	50℃ at 3.0MPa, 150℃ at 0.74MPa	℃
本体材料/Body Material	SUS304	

挠性软管组件/Flexible Pipe Set (M0003)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Flexible Hoses	
型号/Type	TF-NW (MONEL)	
公称直径/Nominal Diameter	20 to 200A	
设计压力/Design Pressure	0.49	MPa
设计温度/Design Temperature	Max. 350	℃
本体材料/Body Material	MONEL	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : DBA02190100, DB13A00078, DB14A00199, DB17A00045, DB21PPP20023

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : DB17T00096
 试验报告日期/ Test Report Date : 2018-02-02
 试验单位/ Laboratory: Tofle Co.,Inc.
 试验单位地址/ Test Address: 886-1,Aza-Shiragami,Kawakami, Hagi-City, Yamaguchi-pref. Japan.

试验报告编号/ Test Report No. : D-4324
 试验报告日期/ Test Report Date : 2022-06-23
 试验单位/ Laboratory: Tofle Co.,Inc.
 试验单位地址/ Test Address: 886-1,Aza-Shiragami,Kawakami, Hagi-City, Yamaguchi-pref. Japan.

试验报告编号/ Test Report No. : 1570045
 试验报告日期/ Test Report Date : 2026-02-06
 试验单位/ Laboratory: Tofle Co.,Inc.
 试验单位地址/ Test Address: 886-1,Aza-Shiragami,Kawakami,Hagi-city,Yamaguchi-pref.Japan.

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.

备注/Remarks

1. 挠性软管不应用于高压燃油喷射系统;

Flexible Hoses in high pressure fuel oil injection systems are not to be accepted;

2. 挠性软管不应用于固定式灭火系统;

Flexible Hoses in fixed fire extinguishing systems are not to be accepted;

3. 挠性软管组件不应用于在正常工作条件下可能受到扭转变形(扭曲)的位置;

Flexible hose assemblies are not to be installed where they may be subjected to torsion deformation (twisting) under normal operating conditions;

4. 用于可燃液体管系中的挠性软管应远离热表面, 如无法避免, 则位于热表面附近的上述挠性软管, 应采用屏板或其他类似的保护措施, 以免由于软管破损而泄漏的可燃液体接触热表面而导致火灾。

Where flexible hoses are intended to be used in piping systems conveying flammable fluids that are in close proximity of heated surfaces the risk of ignition due to failure of the hose assembly and subsequent release of fluids is to be mitigated as far as practicable by the use of screens or other similar protection;

5. 挠性软管应安装在具有足够照明和易于到达察看之处;

Flexible hoses are to be installed in clearly visible and readily accessible locations;

6. 挠性软管组件的使用和安装应符合制造厂说明书的使用和安装要求;

The installation of flexible hose assemblies is to be in accordance with the manufacturer's instructions and use limitations.

7. Kind of Fluid:

Type TF-NW: Compressed air, Exhaust gas, Fresh water and lub. oil

Type TF-NW(MONEL): Sea water

Type TF-3000: Air, fresh water, fuel oil and lub. oil

8. 本证书由原型式认可证书(No. DB21PTB00080)换新并替代原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No. DB21PTB00080.

9. 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.

中国船级社大阪分社
CCS Osaka Branch