中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
WG26PTB00009

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

Tube-Mac Piping Technologies Ltd.

地址/Address

853 Arvin Avenue, Stoney Creek, Ontario L8E 5N8, Canada

产品名称/Product

机械接头
Mechanical Joints

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》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

证书有效期至/This Certificate is valid until **2031年10月26日/ Oct. 26,2031**

发证机构 中国船级社温哥华办事处
Issued by CCS Vancouver Office

签发日期 2026年11月25日
Date Nov. 25,2026

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，可以向我社检验机构咨询。**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。**
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. **For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the certificate.**

产品明细/Product Description

机械接头/Mechanical Joint(M0001)

名称/Name	属性（值）/Value	单位/Unit
型号/Type	见附页|See additional pages	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No.: NY06A00010, NP14A02155

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No.： FFC/RFC type test report
试验报告日期/ Test Report Date： 2006-09-06
试验单位/ Laboratory: Tube-Mac Industries Ltd.
试验单位地址/ Test Address: Stoney Creek, ON, Canada

试验报告编号/ Test Report No.： PYPLOK DNV type test programme
试验报告日期/ Test Report Date： 2009-08-20
试验单位/ Laboratory: Tube-Mac Industries Ltd.
试验单位地址/ Test Address: Stoney Creek, ON, Canada

试验报告编号/ Test Report No.： PYPLOK ABS type approval test plan and results
试验报告日期/ Test Report Date： 2011-06-03
试验单位/ Laboratory: Tube-Mac Industries Ltd.
试验单位地址/ Test Address: Stoney Creek, ON, Canada

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：
认可后的产品由制造厂检验合格后签发合格证明，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. 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. 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。
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

本证书由原型式认可证书(No.WG22PTB00008)换新并替代原证书。
This certificate is renewed from and supersedes the previous Type Approval Certificate No. WG22PTB00008.

产品适用范围/ Application of the Product
Marine System: such as fuel, lube and hydraulic oil systems, pneumatic power and control, compressed air, air conditioning, fresh and sea water, sanitary system etc.
The limitations shall meet the requirements of No.2.5.3.3/6/7/11 and No.1.4.2 of Annex 3 of Ch.2,Part 3 of CCS Rules.

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.

中国船级社温哥华办事处
CCS Vancouver Office

注：本证书含有附页，共2页
Note: The certificate is attached with additional 2 page(s)

Product Description

1. Mechanical Pipe Joints, Flare Flanges System (FFC34, FFC64, FFC74)

Part No.	Diameter (DN)	Max. working pressure (Bar)	Temperature range
FFC34-050	13	350	BUNA N seal: -20°C to +120°C Viton O-ring seal: -20°C to +200°C
FFC34-075	19	350	
FFC34-100	25	350	
FFC34-125	32	275	
FFC34-150	38	210	
FFC34-200	51	210	
FFC34-250	64	175	
FFC34-300	76	140	
FFC64-050	13	420	
FFC64-075	19	420	
FFC64-100	25	420	
FFC64-125	32	420	
FFC64-150	38	420	
FFC64-200	51	420	
FFC74-250	64	310	
FFC74-300	76	270	

2. Mechanical Pipe Joints, Retain Ring Flanges System (RFC34, RFC64, RFC74, RFAC48)

Part No.	Diameter (DN)	Max. working pressure (Bar)	Temperature range
RFC34-050	13	350	BUNA N seal: -20°C to +120°C Viton O-ring seal: -20°C to +200°C
RFC34-075	19	350	
RFC34-100	25	350	
RFC34-125	32	275	
RFC34-150	38	210	
RFC34-200	51	210	
RFC34-250	64	175	
RFC34-300	76	140	
RFC64-050	13	420	
RFC64-075	19	420	
RFC64-100	25	420	
RFC64-125	32	420	
RFC64-150	38	420	
RFC64-200	51	420	
RFC74-250	64	400	
RFC74-300	76	400	
RFC74-400	100	400	
RFAC48-500	127	275	
RFAC48-600	152	255	
RFAC48-800	203	240	

3. PYPLOK System (DM Series)

Part No.	Diameter	Max. working pressure (Bar)	Temperature range
DM20 Series – NPS Pipe	1/4" to 2"	345-276 (Carbon Steel) 415-330 (Stainless Steel) 269-215 (Copper Nickel)	Perbunan O-ring seal: -20°C to +120°C Viton O-ring seal: -20°C to +200°C
DM60 Series – OD Tube	1/4" to 2"	402-275 (Carbon Steel) 483-330 (Stainless Steel) 313-215 (Copper Nickel)	
DM80 Series – Metric Tube	6mm to 60mm	375-245 (Carbon Steel) 450-295 (Stainless Steel) 290-215 (Copper Nickel)	