

# 中国船级社

CHINA CLASSIFICATION SOCIETY

证书格式号/Form: T01.02-HQ002115

# 型式认可证书

# CERTIFICATE OF TYPE APPROVAL

证书编号/Certificate No. FS14T00021

兹证明本证书所述制造厂生产的下列产品能够满足下面列明认可标准的要求。

This is to certify that the following products produced by the manufacturer stated in the certificate can meet the requirements of the approval standards listed below.

认可产品/Product Approved

# 机械接头

**Mechanical Joints** 

制造厂/Manufacturer

# HANSUN ENGINEERING CO., LTD.

#### HANSUN ENGINEERING CO.,LTD.

27, Noksansandan 361-ro, Gangseo-gu, Busan, Korea 27, Noksansandan 361-ro, Gangseo-gu, Busan, Korea

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》(2012)及其修改通报第3篇 第2章 Chapter 2, Part Three of CCS Rules for the Classification of Sea-going Steel Ships 2012 and its Amendments

证书有效期至/ This Certificate is valid until

2018年10月23日 / Oct. 23, 2018

发证机构 Issued by

中国船级社釜山分社

CCS Busan Branch

签发日期

2014年10月24日

Date

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书页背面的说明。当本证书包括多页纸张时,则所有证书页为一个整体,必须同时使用。每一页证书均须由本社盖章方为有效。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。本认可证书不代表本社对个体产 品质量的检验。有关各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 for Classification of Sea-going Steel Ships and related procedures of the Society. Refer to the back of the certificate for detailed requirements of the certificate. When the certificate consists of more than one page, all pages of the certificate are taken as a whole and are used simultaneously. No certificate page is valid without bearing the stamp of the Society 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. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.





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#### 产品明细/Product Description

机械接头/Mechanical Joints 型号/Modle

: 1. S-LOK Tube fittings; 2. Bite type tube fittings for JIS B2351; 3. Bite type tube fittings for DIN 2353;

材料/Material

: Stainless Steel; Carbon Steel; Brass:

规格/Specification

: See Additional Pages

### 批准的图纸和设计计算书/ Approved Drawings and Design Calculations

图纸批准号/ Drawings Approval No.

NP14A00394, NP14A00395, NP14A00396

## 产品认可试验报告/Approval Test Report

试验报告编号/Test Report No. 试验报告日期/Test Report Date HSET-CCS-001

试验单位/Laboratory

Nº 14818109

2014-10-17

试验单位地址/ Test Address

HANSUN ENGINEERING CO., LTD.

27, Noksansandan 361-ro, Gangseo-gu, Busan, Korea

#### 产品适用范围/Application of the Product

Marine System: Flammable Fluids, Inert gas, Sea water, Fresh water, Sanitary/drains/scuppers, Sounding/vent, Miscellaneous.

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.

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

按照规范每批抽样检验的产品/The product inspected by sampling 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每批抽样按批准的产品检验计划进行检验,经检验合格后由本社

颁发产品证书。 After approval, product inspection should be carried out by sampling by the Surveyor of the Society issued by the Society upon satisfactory inspection.

## 对于原材料和零部件的检验要求/ Inspection Requirements for Materials and Components

产品如下原材料和零部件应由本社认可的制造厂生产/The following materials and components of the product should be manufactured by the factory approved by the Society:无/Nil. ASSIFICATION

证书编号: FS14T00021 第 2 页 共 3 页 / Page 2 of 3 产品如下原材料和零部件应经本社检验,持有本社产品证书/The following materials and components of the product should be inspected and certificated by the Society:/Nil.

产品如下原材料和零部件的制造厂清单,经本社批准方可变更/The list of manufacturer for the following materials and components of the product should not be changed without the Society's approval:/Nil.

## 责任声明/Statement of Responsibility

本社的认可不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证,并且不对与本社授权或检验无关的各方负责,不承担其未经应允而承认、接受本社认可所导致的法律和经济责任。

The approval of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

#### 其他/Others

本认可产品为不含弹性和橡胶密封的机械接头,型式试验项目中不包含耐火试验。 The approval products are mechanical joints without resilient and elastomeric seals, fire endurance test not included in the type approval test items.

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.

中国船级社釜山分社

CCS Busan Branch

\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*

注: 本证书含有附页, 共3页

Note: The certificate is attached with 3 additional page(s)

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# Product Description

1. S-LOK Tube fittings

Material		Stainless Steel, Carbon Steel, Brass				
Pipe O.P.		1/8 inches ~1-1/2 inches				
Max. working Pressure		Stainless Steel 33.78MPa ~75.15MP		a		
(depending on size)		Carbon Steel	33.78MPa ∼75.15MPa			
		Brass	10.34MPa ∼24.82MPa			
Temperature Range		Stainless Steel	-1	-196℃ ~649℃		
		Carbon Steel	-5	-53°C ~426°C		
		Brass	-4	-40°C ~205°C		
Types and Design						
Type Description	Fitting Designation			Type Description	Fitting Designation	
Tube to Tube Union	SU,SL,SUR,ST,SX,SUB			Plug and Cap	SP,SC	
Tube to Male Pipe	SMC-N/R	/R/G,SMCT,SOM,SMCB,SLBM,		Tube Insert	SI	
•	SLM,STRM.STBM					
Tube to Female Pipe	SCF,SCG,SCBF,SLF,STRF,STBF			Nut	SN	
Stub Tube Connector	SR,SAB,SAM,SAF,SCP,SCRP			Front Ferrule	SFF	
Tube to AN Tube	SUA,SUBA,SAA			Back Ferrule	SFB	
Tube to SAE O-ring Seal	SMCS,SLS,SLBS,STRS,STBS,SCOS,SCOP			Ferrule Set	SFS	
Tube to Weld End	SCW,SLW,SCSW,SLSW					







## 2. Bite type tube fittings for JIS B2351

Material		Stainless Steel, Carbon Steel, Brass						
Pipe O.P.		6mm ~42mm						
Max. working Pressure		Stainless Steel		21.0MPa ~50.0MPa				
		Carbon Steel		21.0MPa ~50.0MPa				
		Brass		14.7MPa ∼35.0MPa				
Temperature Range		Stainless Steel		-20°C ~300°C				
		Carbon Steel		-23°C ~300°C				
		Brass		-20℃ ~200℃				
Types and Design								
Type Description	Fitting	g Designation Type Descrip		ion	Fitting Designation			
Straight Union	BU		Plug		BP			
Union Elbow	BL		Nut		BN			
Union Tee	BT		Sleeve		BS			
Straight Bulkhead Union	BBU		Hose Male Union		ВНИМ			
Bulkhead Elbow	BBL		Hose Female Union		BHUF			
Long Male Connector	BLMC		Hose Bulkhead Male Union		ВНВМ			
Male Connector	BMC-R/G,BOM		Hose Bulkhead Female Union		BHBF			
Male Elbow	BLM		Hose Male Elbow		BHLM			
Long Male Elbow	BLLM		Hose Female Elbow		BHLF			
O-Seal Male Elbow	BOLM		Hose Bulkhead Male Elbow		BHBLM			
Banjo Elbow	BSLM		Hose Bulkhead Female Elbow		BHBLF			
Male Branch Tee	BBTM		Welding Connector		BCW			
Male Run Tee	BRTM		Welding Bulkhead Union		BBUW			
Bulkhead Female Connector	BBFC		Adapter		BA-R			
Female Connector	BFC		Adapter(for Copper Gasket)		BA-G			
Gauge Connector	BGC		Reducer		BR			
Female Elbow	BLF		Positionable Elbow		BLA			
Female Branch Tee	BBTF		Positionable Branch Tee		BBTA			
Female Run Tee	BRTF		Positionable Run Tee		BRTA			
Jig	ВЈ		Air Purge Valve(tube end)		BAP-A			



BC



Air Purge Valve(thread end)

- 2 -

BAP-2



Cap

3. Bite type tube fittings for DIN 2353

IN 2333				
Stainless Steel, Carbon Steel, Brass				
6mm ~ 42mm				
Stainless Steel	10.0MPa ∼63.0MPa			
Carbon Steel	10.0MPa ~63.0MPa			
Brass	7.0MPa ~44.1MPa			
Stainless Steel	-60℃ ~400℃			
Carbon Steel	-40°C ~120°C			
Brass	-60℃ ~175℃			
Fitting Designation				
DDU,DDL,DDUR,DDT,DDC,DDTR,DDBU,DDBUW,DDBL				
DDOM-U/M,DDMC-R/G/M/GED/MED/N,DDML-R/M				
DDFC-G/M				
DDLA,DDBTA,DDRTA,DDEW,DDET,DDEL,DDKOR,DDR,DDRED				
DDA-GED/MED,DDEGE-G/M				
DDUE				
DDSWVE-G/M,DDWH-G/M,DDTH-G/M				
DDGC-G,DDGE-G,DDGA-G,DDGMA,DDEMA3				
DDAS,DDASK,DDAK,DDAKR				
DMFAD,DMFAE,DMFAD-ED,DMFAE-ED				
DDVSTI-GED/MED,DDVSTI,DDVKA,DDCA				
DDS				
DDN				
	Stainless Steel, Carbon Steel, B 6mm ~ 42mm  Stainless Steel Carbon Steel Brass  Stainless Steel Carbon Steel Brass  Fitting Designation  DDU,DDL,DDUR,DDT,DDC,L  DDOM-U/M,DDMC-R/G/M/G  DDFC-G/M  DDLA,DDBTA,DDRTA,DDEV  DDA-GED/MED,DDEGE-G/M  DDUE  DDSWVE-G/M,DDWH-G/M,D  DDGC-G,DDGE-G,DDGA-G,D  DDAS,DDASK,DDAK,DDAK,DDAK,DDAK,DDAK,DDAK			

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