



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. LT15T00006

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

UNI-Coupling

Kerkdijk-Zuid 11A 5492 HW Sint-Oedenrode The Netherlands

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 2019年9月15日 / Sep. 15, 2019

发证机构 中国船级社鹿特丹办事处
Issued by CCS Rotterdam Office

签发日期 2015年9月16日
Date Sep. 16, 2015

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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本地检验机构/CCS Local Office: 中国船级社鹿特丹办事处 CCS Rotterdam Office 电话/Tel: +31(10)4334066 传真/Fax: +31(10)4334147

LT07636221
No. 15073549

产品明细/ Product Description

机械接头/Mechanical Joints	
型号/Model	: UNI-GRIP Grip Type
型号/Model	: UNI-FLEX Slip Type
规格/Specification	: Refer to the attached page

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

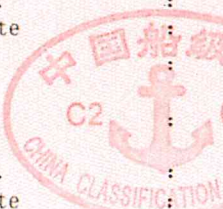
图纸批准号/ Drawings Approval No.	: NP15A02484
批准图纸或技术文件编号	: Dated in 18.12.2012
文件名称	: Bolts
Description:	: -
批准图纸或技术文件编号	: Dated in 19.08.2014
文件名称	: Bridge Plate
Description:	: -
批准图纸或技术文件编号	: Dated in 23.09.2014
文件名称	: Gasket
Description:	: -
批准图纸或技术文件编号	: Dated in 30.07.2012
文件名称	: Gripring
Description:	: -
批准图纸或技术文件编号	: Dated in 02.06.2014
文件名称	: Housing
Description:	: -
批准图纸或技术文件编号	: Dated in 23.09.2014
文件名称	: Merge
Description:	: -
批准图纸或技术文件编号	: Dated in 27.08.2012
文件名称	: Trunions
Description:	: -
批准图纸或技术文件编号	: Dated in 24.09.2014
文件名称	: UNI COUPLING Technical Manual
Description:	: -
批准图纸或技术文件编号	: Dated in 27-08-2012
文件名称	: Washers
Description:	: -

产品认可试验报告/ Approval Test Report

试验报告编号/Test Report No.	: #0-1-L-F-W5-E
试验报告日期/Test Report Date	: 2014-07-25
试验单位/ Laboratory	: Uni-Coupling B. V.
试验单位地址/ Test Address	: Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	: #1-1-L-F-W5-E
试验报告日期/Test Report Date	: 2014-07-30
试验单位/ Laboratory	: Uni-Coupling B. V.
试验单位地址/ Test Address	: Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	: #3C-2-S-F-B-W5-E
试验报告日期/Test Report Date	: 2014-08-06
试验单位/ Laboratory	: Uni-Coupling B. V.
试验单位地址/ Test Address	: Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	: #4c-2-S-F-B-W5-E
试验报告日期/Test Report Date	: 2014-08-15



试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#6c-2-F-G-W5-E
试验报告日期/Test Report Date	:	2014-08-15
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#1d-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#2-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#3-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#4F-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#5F-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#6e-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#8e-2-S-G-B-W5-E
试验报告日期/Test Report Date	:	2014-09-10
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#9c-2-S-G-C-W5-E
试验报告日期/Test Report Date	:	2014-08-15
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#10d-2-S-G-G-W5-E
试验报告日期/Test Report Date	:	2014-08-06
试验单位/ Laboratory	:	Uni-Coupling B. V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#14e-2-S-G-G-W5-E
试验报告日期/Test Report Date	:	2014-08-15
试验单位/ Laboratory	:	Uni-Coupling B. V.



试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#15e-2-S-G-W5-E
试验报告日期/Test Report Date	:	2014-09-17
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#0-1-L-F-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#0b-1-L-F-W5-E
试验报告日期/Test Report Date	:	2015-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#0c-1-L-F-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
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试验报告编号/Test Report No.	:	#0d-1-L-F-W5-E
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试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#1b-1-L-F-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#1a-1-L-F-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#2a-2-S-F-A-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#2b-2-S-F-A-W5-E
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试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#3a-2-S-F-B-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#3b-2-S-F-B-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL



试验报告编号/Test Report No.	:	#4a-2-S-F-B-W5-E, #4b-2-S-F-B-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#5a-2-S-F-C-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#6a-2-S-F-G-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#6b-2-S-F-G-W5-E
试验报告日期/Test Report Date	:	2014-08-06
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#1a-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25
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试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#1b-1-L-G-W5-E
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试验报告编号/Test Report No.	:	#2a-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#2b-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-30
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试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#3a-1-L-G-W5-E, #3b-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/Laboratory	:	Uni-Coupling B.V.
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试验报告编号/Test Report No.	:	#4c-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25



试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#5a-1-L-G-E-W5-E
试验报告日期/Test Report Date	:	2014-08-15
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#5b-1-L-G-E-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/ Laboratory	:	Uni-Coupling B.V.
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试验报告编号/Test Report No.	:	#6a-1-L-G-E-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
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试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#7a-1-L-G-E-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#7b-1-L-G-E-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#8a-2-S-G-B-W5-E, #8b-2-S-G-B-W5-E
试验报告日期/Test Report Date	:	2014-09-04
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#9a-2-S-G-C-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#9b-2-S-G-C-W5-E
试验报告日期/Test Report Date	:	2014-07-30
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#10a-2-S-G-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
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试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#13a-2-S-G-C-W5-E
试验报告日期/Test Report Date	:	2014-09-17
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
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试验报告日期/Test Report Date	:	2014-09-17
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试验报告日期/Test Report Date	:	2014-07-30
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#15a-2-S-G-G-W5-E
试验报告日期/Test Report Date	:	2014-09-04
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#15b-2-S-G-G-W5-E
试验报告日期/Test Report Date	:	2014-09-17
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#1-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#2c-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-08-13
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#3c-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-08-20
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#4-1-L-G-W5-E
试验报告日期/Test Report Date	:	2014-07-25
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#5c-1-L-G-E-W5-E
试验报告日期/Test Report Date	:	2014-08-20
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#7d-1-L-G-E-W5-E
试验报告日期/Test Report Date	:	2014-08-13
试验单位/ Laboratory	:	Uni-Coupling B.V.
试验单位地址/ Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL



试验报告编号/Test Report No.	:	#8c-2-S-G-B-W5-E
试验报告日期/Test Report Date	:	2014-09-11
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#10c-2-S-G-G-W5-E
试验报告日期/Test Report Date	:	2014-08-06
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#13c-2-S-G-C-W5-E
试验报告日期/Test Report Date	:	2014-09-08
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#14c-2-S-G-G-W5-E
试验报告日期/Test Report Date	:	2014-09-02
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL
试验报告编号/Test Report No.	:	#15c-2-S-G-G-W5-E
试验报告日期/Test Report Date	:	2014-09-18
试验单位/Laboratory	:	Uni-Coupling B.V.
试验单位地址/Test Address	:	Kerkdijk-Zuid 11a, 5492HW Sint-Oedenrode, NL

产品适用范围/Application of the Product

The pipe coupling is type approved for use in piping systems as follows:

System

Flammable fluids (Flash point <60° C):

Cargo oil, Crude oil washing (Note 5), Vent (Note 3)

Inert gas:

Water seal effluent, Scrubber effluent

Main (Note 2, 5), Distributions (Note 5)

Flammable fluids (Flash point >60° C):

Cargo oil (Note 5)

Fuel oil, Lubricating oil, Hydraulic oil, Thermal (Note 2, 3)

Sea water:

Bilge, Ballast, Cooling water (Note 1)

Fire main and water spray, Foam, Sprinkler (Note 3)

Tank cleaning, Non-essential sea water systems

Fresh water:

Cooling water, Condensate returns (Note 1)

Non-essential fresh water system

Sanitary / Drains / Scuppers:

Deck drains (internal) (Note 4)

Sanitary drains

Sounding / Vent:

Water tanks / Dry spaces

Oil tanks (media with flash point > 60° C) (Note 2, 3)

Miscellaneous:

Service air (non - essential)

Brine

Notes:

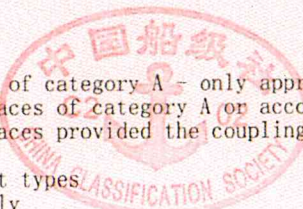
Note 1: Inside machinery spaces of category A - only approved flame resistant types

Note 2: Not inside machinery spaces of category A or accommodation spaces. The pipe couplings may be accepted in other machinery spaces provided the couplings are installed at easily visible and accessible locations.

Note 3: Approved flame resistant types

Note 4: Above freeboard deck only

Note 5: In pump rooms and open decks only approved flame resistant types



Limitations:

The use of pipe coupling is not approved for application in:

- class 1 piping;
- bilge lines inside ballast and fuel tanks;
- sea water and ballast lines including air and overflow pipes inside cargo holds and fuel tanks;
- fuel and oil lines including air and overflow pipes arranged inside machinery spaces of category A, accommodation spaces, cargo holds and ballast tanks (Refer to Note 2);
- fire extinguishing systems which are not permanently water filled (dry pipe system);
- inside of tanks which contains media of different nature to the pipes;
- piping systems with impulse pressure load other than water hammer;
- Steam pipe systems;

Remarks:

Unrestrained slip-on joints are to be used only in cases where compensation of lateral pipe deformation is necessary. Usage of these joints as the main means of pipe connection is not permitted.

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:

认可后的产品检验由制造厂按本社批准的产品检验计划进行检验, 经检验合格后由制造厂签发合格证明, 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 in accordance with the product inspection scheme approved by the Society. 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.

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.

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:

无/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:

无/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.

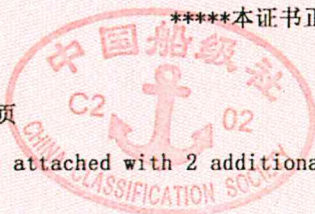
中国船级社鹿特丹办事处

CCS Rotterdam Office

*****本证书正文完/ End of Text*****

注：本证书含有附页，共2页

Note: The certificate is attached with 2 additional page(s)



Technical Particulars for UNI-Flex

Type	Version	Pipe Nominal OD (mm)	Nominal Pressure (bar)
UNI FLEX Ø20.5 – 172 mm PN 16	1-L-F-...	21,3 – 168,3	16
	1-S-F-...	21,3 – 168,3	16
UNI FLEX Ø180.0-2032 mm / PN 16	2-S-F-B-...	219,1	16
	2-S-F-C-...	273,0 – 323,9	16
	2-S-F-G-...	355,6 – 457,2	16
	2-S-F-G-...	508,0 – 711,2	10
	2-S2-F-G-...	762,0- 1117,6	10
	2-S3-F-G-...	1219,2-1422,4	6
	2-S3-F-G-...	1524,0	2,5
	2-S4-F-G-...	1625,6-2032,0	2,5
	2-S-F-A-...	219,1	10
	2-S-F-B-...	273,0-323,9	10
	2-S-F-C-...	355,6 – 508,0	10
	2-S-F-C-...	558,6 – 711,2	6
	2-S2-F-C-...	762,0 – 1016,0	6
	2-S2-F-C-...	1117,6	2,5
	2-S3-F-C-...	1219,2	2,5
	2-S3-F-C-...	1422,4 – 1524,0	*
	2-S4-F-C-...	1625,6 – 1828,8	*
UNI FLEX Ø 180.0-2032 mm / PN10	2-S-F-A-...	273,0 – 323,9	6
	2-S-F-B-...	355,6 – 508,0	6
	2-S-F-B-...	558,8 – 711,2	2,5
	2-S2-F-B-...	762,0 – 812,8	2,5
	2-S2-F-B-...	914,4 – 1117,6	*
	2-S3-F-B-...	1219,2	*

* To be used in open systems only i.e. under atmospheric conditions

TEMPERATURE RATING:

EPDM sleeve: -30 °C up to +125°C for version 1-L-/1-S-

-20 °C up to +80°C for version 2-S-/2-S2-/2-S3-/2-S4-

NBR sleeve: -20°C up to +80°C for all versions

MATERIALS:

	W5 (Standard)	W4 (Optional)	W2 (Optional)
Casing	1.4571 / Grade 316 Ti	1.4301 / Grade 304	1.4016 / Grade 301
Bolts	A4-80 / Grade 316 Ti	A4-80 / Grade 316 Ti	A4-80 / Grade 316 Ti
Bars	1.4571 / Grade 316 Ti	1.4301 / Grade 304	1.0760 / AISI 1141
Strip Insert (Option)	Type 1.4571 / Grade 316 Ti	1.4571 / Grade 316 Ti	1.4571 / Grade 316 Ti



Technical Particulars for UNI-Grip

Type	Version	Pipe Nominal OD (mm)	Nominal Pressure (bar)
UNI-Grip	1-L-G-...	21,3 – 168,3	16
	1-S-G-...	21,3 – 168,3	16
	2-S-G-G-...	219,1 – 273,0*	16
	2-S-G-G-...	323,9* - 355,6*	10
	2-S-G-G-...	406,4* - 508,0	6
	2-S-G-G-...	558,8 – 711,2	2,5
	1-LE-G-...	66,6 – 168,3	10
	1-SE-G-...	66,6 – 168,3	10
	2-S-G-C-...	219,1 – 273,0 *	10
	2-S-G-C-...	323,9* - 355,6*	6
	2-S-G-C-...	406,4*	2,5
	2-S-G-B-...	219,1 – 273,0*	6
	2-S-G-B-...	323,9* - 355,6*	2,5

* For CuNiFe pipes with wall thickness of 4 mm or less maximum PN is 2,5 bar

TEMPERATURE RANGE:

EPDM sleeve: -30 °C up to +125°C for version 1-L-/1-LE-/1-S-/1-SE-

-20 °C up to +80°C for version 2-S-

NBR sleeve: -20°C up to +80°C for all versions

MATERIALS:

	W5 (Standard)	W4 (Optional)	W2 (Optional)
Casing	1.4571 / Grade 316 Ti	1.4301 / Grade 304	1.4016 / Grade 301
Bolts	A4-80 / Grade 316 Ti	A4-80 / Grade 316 Ti	A4-80 / Grade 316 Ti
Bars	1.4571 / Grade 316 Ti	1.4301 / Grade 304	1.0760 / AISI 1141
Anchoring rings	1.4310 / Grade 301	1.4310 / Grade 301	1.4310 / Grade 301
Strip Insert (Option)	1.4571 / Grade 316 Ti	1.4571 / Grade 316 Ti	1.4571 / Grade 316 Ti