

中国船级社

CHINA CLASSIFICATION SOCIETY

证书格式号/Form: T01.02-QD000148

型式认可证书

CERTIFICATE OF TYPE APPROVAL

证书编号/Certificate No. HB14T00056_01

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

压力开关

PRESSURE SWITCH

制造厂/Manufacturer

Danfoss A/S

Nordborgvej 81, Nordborg, Denmark

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4篇第1章

CCS "Rules for Classification of Sea-going Steel Ships" (2012) Part 4, Chapter 1 and its Amendments

2.中国船级社《钢质海船入级规范》(2012)及其修改通报第7篇第2章

CCS "Rules for Classification of Sea-going Steel Ships" (2012) Part 7, Chapter 2 and its Amendments

证书有效期至/ This Certificate is valid until

2019年1月28日 / Jan. 28, 2019

发证机构 Issued by

中国船级社汉堡分社 CCS Hamburg Branch

签发日期

2015年6月30日

Date

Jun. 30, 2015

本证书根据中国船级社《销质海船入级规范》及有关程序规定签发。美工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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本地检验机构/CCS Local Office:

中国船级社汉堡分社

CCS Hamburg Branch

电话/Tel: 0049-40-3860890 传真/Fax: 0049-40-38608918

证书适用条件 1.

经本社设计认可、型式认可或工厂认可的产品及其生产厂,本社将颁发产品设 1.1. 计认可、型式认可或工厂认可证书。当 CCS 规范要求产品证书的情况下,认可证书不能替代产品证书。

1.1.1. 设计认可系指 CCS 准予设计在特定条件下适用于规定用途的认定过程,一般

- 设计从可承指 CCS 准于设计在特定条件下边用于规定用途的认定过程,一般包括图纸申查和原型 型式试验(如适用时)。 型式认可系指 CCS 迎过产品的设计认可和制造管理体系审核、以确认申请认可的制造厂具备持续生产符合 CCS 规范要求的产品的能力的评定过程。根据产品制造管理体系的证实程度,为型式认可 A 和 B 两级。其中申请型式认可 B 的创造厂应具有申请认可产品的生产和测试能力,并具有有效的质量控制制度,申请型式认可 A 的制造厂除具条型式认可 B 的条件外,还应建立,并保持一个至少符合 ISO9000 标准的质量保证体系,使其产品的质量保持持 1.1.2
- 工厂认可系指 CCS 通过制造厂的资料审查、认可试验和产品制造过程的审核、对产品制造厂的产品生产条件和能力予以确认的评定过程。 1.1.3

入级和法定产品经本社单件/单批检验完成后,本社将颁发产品证书或签署等效 1.2.

产品证书是由 CCS 验船师签发的文件以证明 a) 产品符合规范要求, b)产品已进行规定的检验和试验, c) 检验样品取自检验产品本身, d) 产品的试验 121 在验船师参加或根据特别商定的情况下进行。

等效证明文件是由制造厂出具并发 CCS 盖章和验船师祭署的文件以证明 a) 产品符合规范要求,b)产品已进行规定的检验和试验,c)检验样品取自检验产品本身,d)产品的试验在验船师参加或根据特别商定的情况下进行。 1.2.2.

1.3. 对于要求型式认可和/或工厂认可而不要求持有产品证书的入级和法定产品,可

由制造厂证明形式予以证明: 制造厂证明由制造厂签发,以证明: a)该产品经 CCS 型式认可或工厂认可; b)产品符合规范要求; c)产品已进行规定的检验和试验; d)检验符品取自检验 1.3.1. 产品本身; e)产品的试验在制造厂授权的部门在场的情况下进行;

规范和法定要求以外的产品经本社单件/单批检验完成后,由检验证书或试验证 1.4 书予以记录和证明。

检验证书是由 CCS 验船师签署的文件,以证明 a)符合申请方确定的产品标 1.4.1 准;b)检验和试验经验船师见证和/或试验报告经验船师审查: c)试验样品取自 现有产品生产中。

试验证书是由 CCS 验船师签署的文件,以证明 a)产品的试验在验船师在场下 进行; b)试验样品取自现有产品生产中。

证书的自动失效 2.

本社通过认可、检验工作所签发的证书或相关的证明文件, 在发生下列情况时即

证书或证明文件严重破损,内容无法辨认,或证书页缺失; 21

证书或证明文件的内容被涂改; 2.2

- 申请方、制造厂、提供服务方或其他相关各方,在取得本社签发的证书或证明 文件的过程中使用欺诈。作假、故意隐瞒事实等不道德手段或存在道法行为,致使本社在认证工作中无法客观、全面了解必要的认可信息; 由于发证依据变化,经本社或国家主管机关认定并公布予以废止的。(例如:
- 2.4 相关证书或证明文件的发证依据发生重大改变,且原使用的发证依据被证实为
- 对产品或服务的使用安全性存在重大影响); 由于其他原因,经本社认定并通知相关方予以废止的; 2.5
- 2.6. 有关认可证书的保持和失效见本社规范

3. 寄任

- 本社承担的认可/检验服务是在所涉及的产品设计方、制造方、拥有方、销售方、 供应方、修理方、使用方以及其他方履行各自职责的基础上进行的。无论本社及 3,1 所属验船师采用何种认可/检验方式,也不论在本社名义下颁发、签署的任何报告,文件和证书在内容上如何,均不意味着可减轻或解除上述任何方应承担的任 何责任。
- 本社签发的与认可/检验有关的任何文件,只反映检验当时的技术状况,并不表 明被认可的工厂和产品的所有权和知识产权归居。与被认可的工厂和产品的所有 权和知识产权有关的任何争议,与本社无关,
- 3.3 本社的认可/检验不影响、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/检验所导致的法律和经济责任。

3.4 本社仅对由于自身疏忽行为而直接造成的合同关系方的损失或损害承担责任, 在任何情况下, 本社均不对合同关系方的间接损失或随后引发的附加损失或损害

3.5 1) 本社雇员超越其受雇权限的行为;

2) 本社代理人或其他代表方, 超越本社对其书面授权范围的行为。 对本社承担责任的损失或损害的索赔, 应以书面形式, 在损害最初发现或损失形成的6个月内提出, 否则将被视为彻底放弃案赔权。 3.6

- 本证书条款的生效、解释、执行、争议的解决均适用中华人民共和国法律。 除与本社另有约定外,凡因与本社提供的服务有关的任何争议,均应提交中国海 4.1
- 4.2 事仲裁委员会,按照申请仲裁时该会现行有效的仲裁规则进行仲裁。仲裁裁次是 最终的, 对争议当事双方均有约束力。

THE APPLICATION OF CERTIFICATES

- After Approval, Certificate of Design Approval, Certificate of Type Approval or Certificate of Works Approval will be issued by the Society for the products and manufacturers. Where a products certificate is required by CCS' rules, the Approval Certificate cannot replace it.
- 1.1.1
- ertificate cannot replace it.

 Design approval means the process whereby permission is granted by CCS for the design to be used for a stated purpose under specific conditions, generally comprising drawing approval and prototype/type test (if applicable).

 Type approval means the evaluation process whereby the requesting manufacturer's ability to produce consistent products in compliance with CCS' rules is confirmed by CCS through Design Approval of products and audit of manufacturing management system. Depending on the validation of the manufacturing management system, the type approval is to be classified as A or B.

A manufacturer requesting type approval B is to be capable of producing and testing the products to be approved and have an effective quality control system. A manufacturer requesting type approval A is to be qualified for type approval B and in addition, to establish and maintain a quality assurance system complying at least with ISO 9000 so as to meet the specified level of product quality consistently

Works approval means the evaluation process whereby the manufacturer's production conditions and ability is confirmed by CCS through document review, approval testing and verification of manufacturing process.

A unit/batch inspection of classed or statutory products is to be documented as Certificate of Product or Equivalent document: 1.1.3

1.2.

Certificate of Product issued by the Surveyor to show that: i) the product complies with rules; ii) required inspection and test have been carried out; iii) the 1.2.1 sample is taken from the product to be inspected; iv) the product has been tested in the presence of the Surveyor or in a specially agreed condition.

Equivalent document issued by the manufacturer and endorsed by the Surveyor

1.2.2. to show that: i) the product complies with rules; ii) required inspection and test have been carried out; iii) the sample is taken from the product to be inspected; iv) the product has been tested in the presence of the Surveyor or in a specially agreed

The classed and statutory products of which the type approval and/or works approval is required but the products certificate is not required, may be certified as Manufacturer's document: 1.3

The manufacturer's document is issued by the manufacturer to show that: i) the product is type approved or works approved by CCS; ii) the product complies with rules; iii) required inspection and test have been carried out; iv) the sample is 1.3.1 taken from the product to be inspected; v) the product has been tested in the presence of the department authorized by the manufacturer.

A unit/batch inspection Products other than those specified in rules or statutory requirements is to be documented as Inspection Certificate or Test Certificate:

1.4.

Inspection Certificate issued by the Surveyor to show that: i) the product standards as determined by the applicant has been complied with; ii) the inspection and test has been witnessed by the Surveyor and/or the test report has been 1,4.1 reviewed by him; iii) the test sample has been taken from the existing products.

Test Certificate issued by the Surveyor to show that: i) the product has been

1.4.2 tested in the presence of the Surveyor, ii) the test sample has been taken from the existing products.
AUTOMATIC INVALIDATION OF CERTIFICATE

2.

The certificates or equivalent documents issued by the Society by means of approval or certification will be invalidated automatically under the following circumstances: The certificate or equivalent document is severely damaged and illegible or with

2.1. missing page(s).
The certificate or equivalent document is altered.

- 2.3. The applicant, manufacturer, service supplier or other interested parties deceive, swindle and hide facts or even dare to violate the laws in the process of obtaining the certificate or equivalent document issued by the Society, so that the Society can not get hold of the certification information fully and objectively.

 Due to the change of the certification basis, the certificate or equivalent document is
- 2.4 revoked as advised by the Society or the national administrations, (e.g. The certification basis for relevant certificate or equivalent document are significantly changed and the original certification basis are substantiated to badly affect the safety of the product or service used).

 Due to other reasons, the certificate or equivalent document is revoked as confirmed

2.5

and advised by the Society to relevant parties.

Please refer to CCS' Rules for the maintenance and invalidation of Approval 2.6.

3. 3.1 The service of approval / inspection undertaken by the Society is carried out on the basis that the designers, manufacturers, owners, sellers, suppliers, repairers, operators and other parties fulfill their respective responsibilities. The contents of any reports,

and other parties fulfill their respective responsibilities. The contents of any reports, documents and certificates issued by the Society do not mean to diminish any liability of any party mentioned above or absolve it therefrom, whatever the module of approval/inspection adopted by this Society and its surveyors.

Any approval/inspection-related documents issued by the Society only reflect the status at the time when the approval/inspection is carried out. They do not constitute the description for ownership and intellectual property rights of the approved/inspected factory and product. This Society should not be affected by any dispute over constraint and intellectual property rights of the approved/inspected factory and product. This Society should not be affected by any 3.2 dispute over ownership and intellectual property rights of the approved/inspected factory and product.

3.3 The approval/inspection 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. The Society will be liable only for the loss or damage of contract parties resulting

3.4 directly from its negligent act. In no event shall the Society be liable for any indirect or consequential losses or damage, and any loss of non-contract parties.

- or consequential losses of damage, and any loss or non-contract parties.

 Notwithstanding the previous paragraph, the Society will be liable for the loss or damage due to negligent act judicially attributed exclusively to the Society and its employees, agents or other parties acting on behalf of the Society. And in no case shall the amount of this liability exceed five times the fee(s) charged by the Society in respect of the service(s) in question or 2,000,000 RMB in maximum. The Society 3.5 liability for the loss or damage is specially excluded when such loss or damage arises
 - by an employee of the Society acting outside the terms or scope of his/her employment; or by any agent or other parties acting on behalf of the Society, when such act
- exceeds the authority granted in writing by the Society to such agent or parties.

 Any claim for any loss or damage set forth above is to be made in writing within six months of the date the damage first discovered or the loss occurred; failure of doing 3.6

so will be deemed as an absolute waiver of this right.
APPLICABLE LAWS AND ARBITRATION

4.1

APPLICABLE LAWS AND ARBITRATION

The laws of the People's Republic of China shall apply to the coming into force, explanation, implementing, and resolution of dispute of the clause of the certificate.

Unless otherwise agreed with the Society, any dispute of whatsoever nature in respect to the service(s) provided shall be referred to China Maritime Arbitration Commission and arbitrated in accordance with its arbitration rules effective at the time of request for exhibiting the arbitration and arbitrated in accordance. 4.2 for arbitration. The arbitration award shall be final and binding upon both interested

产品明细/ Product Description

压力开关/PRESSURE SWITCH 产品型号/Type

: KPS31, KPS33, KPS35, KPS37, KPS39, KPS43, KPS45, KPS47 Details please refer to Others

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

图纸批准号/Drawings Approval No.

HBT03290146

产品认可试验报告/Approval Test Report

7674000 试验报告编号/Test Report No. 1976-04-23 试验报告日期/Test Report Date 试验单位/ Laboratory Danfoss A/S

试验单位地址/ Test Address Nordborgvej 81, DK 6430 Nordborg Denmark

试验报告编号/Test Report No. J. No. 20042608 试验报告日期/Test Report Date 2004-08-26 试验单位/ Laboratory Danfoss A/S

试验单位地址/ Test Address Nordborgvej 81, DK 6430 Nordborg Denmark

产品适用范围/Application of the Product

船用/Marine Application

认可保持条件/ Maintenance Requirements of Approval

1. 产品检测和试验机构认可后,如果检测、试验设备或试验程序、方法有较大改变,应征得本社同意。若改变涉及或影响到检测、试验的结果时,本社检验人员将到厂进行检查和见证有关试验,其结果应能证实仍符合认可条件。 After works approval, if there are any major changes to the inspection and testing instruments or testing procedure, prior consent should be obtained from the survey office of the Society. If the changes involve or affect the results of inspection and testing, the surveyor to the Society will go to the agency to inspect or witness relevant tests and the results of the tests should be able to

demonstrate compliance with the approval conditions.

2. 认可证书获得者应接受本社一次定期审核,定期审核日为认可证书的签发日起的第二个周年日,检查工作可在定期审核日的前后三个月内进行。"

Those who have obtained the certificate of agency approval shall receive periodical audit done by the Society. The date of periodical audit shall be the second anniversary date of the approval

the Society. The date of periodical audit shall be the second anniversary date of the approval certificate since the date of issuance and the periodical audit may be done within a time span of three months before or after the above periodical audit date.

3. 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机构的检测和试验过程进行审核,以验证检测和试验过程是否符合认可条件。机构应予以配合。
Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the inspection and testing process of the product in order to confirm whether it is in compliance with the approval conditions. The agency should provide an active cooperation and processary for the surveyor

necessary for the surveyor. 4.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,机构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 certificate, the agency should take corrective actions in a prompt and effective manner

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 additional inspection, and with the Quality of the Society. 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。

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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。

产品主要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 manufacturers for the major materials and components of the product should not be changed without the Society's approval.

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

1. 本证书由原型式认可证书(No. HB11T00020_01)换新并替代原证书。 This certificate is renewed from and supersedes the previous Type Approval Certificate No. HB11T00020 01.

2. Factory's Name and Address of the Products: Danfoss Poland Sp. z. o. o., UI. Chrzanowska 5, PL-05825 Grodzisk Mazowiecki, Pland

3. Product Description

Type	Range (Bar)	Differential(Bar)	Connection
KPS 31	0.0.5	0. 1	G1/4, G3/8A
	0-2.5	0.1	
KPS 33	0-3.5		G1/4, G3/8A
KPS 35	0-8.0	0. 4-1. 5	G1/4, G3/8A
KPS 37	6-18.0	0.85-2.5	G1/4, G3/8A
KPS 39	10-35.0	2. 0-6. 0	G1/4, G3/8A
KPS 43	1-10	0. 7-2. 8	G1/4
KPS 45	4-40	2. 2-11	G1/4
KPS 47	6-60	3. 5-17	G1/4

Output: 1 c/o contact

Rating: 10A 440V AC-1, 6A 440V AC-3, 6A 250V AC-15 Degree of protection: IP67

4. 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.

中国船级社汉堡分社

CCS Hamburg Branch





