

CERTIFICATE NUMBER 15-LD1320228-PDA DATE 03 Feb 2015

**CERTIFICATE OF** 

ABS TECHNICAL OFFICE London Engineering Department

# **DESIGN ASSESSMENT**

This is to certify that a representative of this Bureau did, at the request of

# DANFOSS A/S

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Pressure Switch

Model: KPS (Pressure)

This Product Design Assessment (PDA) Certificate 15-LD1320228-PDA, dated 03/Feb/2015 remains valid until 02/Feb/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Malcolm C Barraclough

Engineer

#### DANFOSS A/S

NORDBORGVEJ 81

**NORDBORG** 

Denmark DK-6430

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Web: www.danfoss.com

Tier: 3 - Type Approved, unit certification not required

**Product:** 

**Pressure Switch** 

Model:

**KPS** (Pressure)

#### **Intended Service:**

ABS classed vessels and offshore facilities in accordance with the listed ABS Rules

**Description:** 

Pressure switches intended for use in monitoring, alarm and regulation systems in the following mediums: Water, Fuel Oil, Lube Oil, Gas, Refrigerants, Hydraulic Fluids

Type: KPS 31; Operation Pressure (BAR): 0 to 2.5; Type: KPS 33; Operation Pressure (BAR); 0 to 3.5; Type: KPS 35; Operation Pressure (BAR): 0 to 8; Type: KPS 37; Operation Pressure (BAR): 6 to 18; Type: KPS 39; Operation Pressure (Bar):10-35; Type: KPS 43; Operation Pressure (BAR): 1 to 10; Type: KPS 45; Operation Pressure (BAR): 4 to 40; Type: KPS 47; Operation Pressure (BAR): 6 to 60; Temperature of medium for KPS 31-39: -40 degrees C to 100 degrees C; Temperature of medium for KPS 43-47: -25 degrees C to 100 degrees C; For Water - Maximum 80 degrees C; Maximum Contact Load: 440V, 10 A AC, 220V 12 W DC,

## **Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

#### **Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:** 

Drawing No. 119201, DEMKO Cert, Revision: -, Pages: 52
Drawing No. 7674000, Testing of Pressure Controls & Thermostats Types KP & KPS, Revision: -, Pages: 8
Drawing No. IC.PD.P10.C2.02 - 520B2981, Data sheet KPS, Revision: -, Pages: 13

Drawing No. TR 060, 060L-1936, Test Report for compliance to EN 60947, Revision: -, Pages: 12

Drawing No. TR 60-553e, Technical Report - Cold, Heat and Moisture Test, Revision: -, Pages: 2

Terms of Validity:

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## **STANDARDS**



## **DANFOSS A/S**

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## **ABS Rules:**

ABS Rules:
The Rules/Guides applicable to this assessment are:
- Steel Vessels (2015) 1-1-4/7.7, 1-1-A3 & A4, 4-8-3/1.7, 1.11, 1.13
- Steel Vessels Under 90 Meters (295 Feet) in Length (2015) 1-1-4/7.7, 1-1-A3 & A4, 4-6-1/11, 15
- Facilities on Offshore Installations (2015) 1-1-4/9.7, 1-1-A2 & A3
- Offshore Support Vessels (2015) 1-1-4/7.7, 1-1-A3 & A4, 4-8-3/1.7, 1.11, 1.13
- Mobile Offshore Drilling Units (2015) 1-1-4/9.7, 1-1-A2 & A3, 4-3-1/11, 15, 6-1-7/1.3
- High-Speed Craft (2015) 1-1-4/11.9, 1-1-A2 & A3, 4-6-1/11, 15
- Steel Barges (2015) 1-1-4/7.7, 1-1-A3 & A4

#### National:

NA

# International:

NA

Government:

NA

**EUMÉD**: NA

**OTHERS:** 

NA