



Marine & Offshore

Certificate number: 06094/F0 BV

File number: AP 2750 Product code: 3891H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

DANFOSS A/S

NORDBORG - DENMARK

for the type of product

PRESSURE TRANSMITTERS / TRANSDUCERS

Type: MBS 5100 and MBS 5150 with pulse-snubber.

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 06 Apr 2025

For Bureau Veritas Marine & Offshore, At BV FREDERICIA, on 06 Apr 2020, Jesper JENSEN





This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

PRESSURE TRANSMITTER

Type:MBS 5100

Type: MBS 5150 with pulse-snubber

2. DOCUMENTS AND DRAWINGS:

According to Data Sheet IC.PD.P20.T3.02 - 520B2285 and documents filed in AP 2750.

3. TEST REPORTS:

Test report N° 4-23160 dated 95/02/16 and 94/06/27 carried out by DANFOSS in-house Laboratory under Society's witnessing.

4. APPLICATION / LIMITATION:

- 4.1 BV Rules for the Classification of Steel Ships.
- 4.2 Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 The equipment, once installed on board ship, is to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 The **Pressure Transmitters** are to be supplied by **DANFOSS A/S** in compliance with the type described in this certificate.
- 5.2 This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 **DANFOSS A/S** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 For information, **DANFOSS A/S** has declared to Bureau Veritas the following production site(s):

Danfoss (Tianjin) Ltd-Industrial Automation Business Unit No.9 Quanhui Rd., Wuqing Development Area, TIANJIN CHINA

6. MARKING OF PRODUCT:

- 6.1 Trade name.
- 6.2 Date of manufacture and serial number.
- 6.3 Equipment type or model identification under which it was type-tested

7. OTHERS:

- 7.1 It is **DANFOSS A/S**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
- 7.2 This Certificate supersedes the Type Approval Certificate N° 06094/E0 BV issued on 02 Feb 2015 by the Society.

*** END OF CERTIFICATE ***