



Confirmation of Product Type Approval

Company Name: CLASS INSTRUMENTATION LTD

Address: 837 GARRATT LANE, LONDON, United Kingdom, SW17 0PG

Product: Tightness Detection System

Model(s): Cargo-Safe

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	20-1966580-PDA	03-APR-2020	02-APR-2025
Manufacturing Assessment (MA)	21-4871379	03-AUG-2021	02-AUG-2026
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

Description

Water tightness testing system used on ABS vessels and offshore units. Primary function is to test cargo hatch cover for water tightness but can also be used to check tightness of doors, windows, ramps, openings and bulkheads.

The system comprises a micro-processor controlled transmitter, containing 13 off 40 KHz emitters arranged on a dome, producing uniformly distributed omni-directional ultrasound field and a handheld ultrasonic receiver unit which, connects to a 10 mm diameter inspection microphone on a telescopic arm thereby allowing tightness measurements in dBuV values. (Memorisation of data and in a specific routine for hatch cover tightness testing, logging and downloading to a PC for appropriate reporting)

Ratings

Power supply: Transmitter - 9 - 24 VDC Rechargeable NiMH or 6 disposable AA Alkaline batteries, Receiver: 1 PP3 9V battery

Service Restrictions

Unit Certification is not required for this product.

Not to be used in hazardous environments.

Comments

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

Notes, Drawings and Documentation

Drawing No. Manual Cargo Safe Ultrasonic Hatch Cover Tester -1

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 02/Apr/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

The Rules applicable to this assessment are:

- Marine Vessel Rules (2020): 1-1-4/7.7, 1-1-A3&A4, 4-8-3/1.7, 4-9-9/7, 4-9-9/13, 4-9-9/Table1;
- Facilities on Offshore Installations (2020): 1-1-4/9.7, 1-1-A2&A3;
- Mobile Offshore Units (2020): 1-1-4/9.7, 1-1-A2&A3, 4-1-1/7.9, 4-3-1/11, 6-1-1/9, 6-1-1/13;
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2020): 1-1-4/7.7, 1-1-A3&A4;
- High Speed Crafts (2020): 1-1-4/11.9, 1-1-A2&A3, 4-6-1/11, 4-7-9/7, 4-7-9/15, 4-7-9/Table 9;
- Steel Barge Rules (2020): 1-1-4/7.9, 1-1-A3&A4;

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA





Corporate ABS Programs
American Bureau of Shipping

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.