

Equipment Certification Report

Asset Type Ship Side Valve
Customer Name SKIPPER ELECTRONICS A/S
WCN of Customer 500646
Location Oslo

This is to certify that the undersigned Surveyors to this Bureau did at the request of SKIPPER ELECTRONICS A/S, from 15-Dec-2022 to 19-Dec-2022, carry out the following survey and report as follows:

Client Asset Name Quantity

Ship Side Ball Valve 2

Name Plate Data

| ABS Label | Manufacturer | Purchaser | Designer | Destination Vessel | Spare |
|----------------------|--------------|-----------|--------------|--------------------|-------|
| Ship Side Ball Valve | VIS VANA SAN | - | VIS VANA SAN | - | Yes |

Basic Identification Data

| Serial Number | Model Number | Owner Tag Number | Supplier Ref. Number |
|---------------|--------------|------------------|----------------------|
| 22527 | SB-100-SB | - | PWO/121436 |

Report Details

ABS Stamping Maltese Cross

5597170 Yes

Design Details

| Design state | Drawing Number | Reviewing Organization | Rule Set Name | Rule Set Version |
|-------------------------|------------------|-------------------------------|--|------------------|
| Product Design Assessed | 17-LD1648327-PDA | London Engineering Department | Rules for Building and Classing Marine Vessels | 2022 |

Additional Data

Valve Material Austenitic Cast Stainless Steel

Valve Size 100 mm

Statement of Work - Classification Service - Certification -

- ABS Certificate was issued as required by the Rules
- Plan review and/or Product Design Assessment (PDA) has identified design restrictions and/or limitations which are to be referenced upon installation onboard the vessel.
- Company has provided a declaration of conformity as required by International Maritime Organization (IMO) Resolution MSC.282(86), adopting SOLAS Reg. II-1/3-5.2, and the IMO MODU Code 2009, the aforementioned product or design does not contain any form of asbestos. .
- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.

NOTE: This Report evidences that the survey reported herein was carried out in compliance with one or more of the Rules, guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item of material equipment, machinery or any other item covered by this Report has been examined for compliance with, or has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this Report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

- Dimensions and tolerances were verified as required by the design approval.
- Functional testing of subassemblies and completed units, as specified in the fabrication procedures was completed to the satisfaction of the attending Surveyor.
- Subject to satisfactory installation, testing and trials after installation onboard the vessel.
- Pressure and/or proof-load testing of the equipment/component was witnessed to the satisfaction of the attending Surveyor.
- Material test reports (MTR) were reviewed and found to be the satisfaction of the attending Surveyor. Where required by the Rules, ABS material certification reports have been verified.

Report Findings

Statement/Observation

| Finding No | Asset | Survey Task | Date Created |
|------------|----------------------|--|--------------|
| 212.0 | Ship Side Ball Valve | Certification - Ship Side Ball Valve, Ship Side Ball Valve | 19-Dec-2022 |

Found

Side shell gate valves DN100 for Echo Sounder Transducer Installation

Hydrostatic pressure test was carried out at 5 bar with closed valve for 5 minutes in accordance with 2022 ABS Marine Vessel Rules 4.6.2/7.3.2.

No leakage or plastic deformation were noted during testing.

Material certificates of valves, intermediate elements and bottom flanges were provided by the Manufacturer and satisfactorily reviewed.

The valves were found covered by ABS Product Design Assessment no. 17-LD1648327-PDA.

Closing Paragraph:

The component/equipment was surveyed in accordance with the Rules, specifications, and approved drawings, as applicable, and is eligible for installation on board an ABS classed vessel subject to satisfactory installation and testing, as necessary.

Attending Surveyor(s):

Fuglei, Tor Brodde
Signed-off Date: 20-Dec-2022

Reviewing Surveyor(s)

Work Order Reviewer: Vocke, Sebastian
Work Order Credit Date: 20-Dec-2022



Work Order: 5597170-B
First Visit Date: 15-Dec-2022
Last Visit Date: 19-Dec-2022
Vendor PO Number: 124116 and 121920
Survey Location: Oslo

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Client Asset Name Quantity

Ship Side Gate Valve 4

Name Plate Data

| ABS Label | Manufacturer | Purchaser | Designer | Destination Vessel | Spare |
|----------------------|--------------|-----------|--------------|--------------------|-------|
| Ship Side Gate Valve | VIS VANA SAN | - | VIS VANA SAN | - | Yes |

Basic Identification Data

| Serial Number | Model Number | Owner Tag Number | Supplier Ref. Number |
|----------------------------|--------------|------------------|----------------------|
| 22523, 22524, 22525, 22526 | SB-100-SA | - | PWO/118604-1 |

Report Details

ABS Stamping Maltese Cross

5597170 Yes

Design Details

| Design state | Drawing Number | Reviewing Organization | Rule Set Name | Rule Set Version |
|-------------------------|------------------|-------------------------------|--|------------------|
| Product Design Assessed | 17-LD1648327-PDA | London Engineering Department | Rules for Building and Classing Marine Vessels | 2022 |

Additional Data

Valve Material Copper

Valve Size 100 mm

Statement of Work - Classification Service - Certification -

- ABS Certificate was issued as required by the Rules
- Plan review and/or Product Design Assessment (PDA) has identified design restrictions and/or limitations which are to be referenced upon installation onboard the vessel.
- Company has provided a declaration of conformity as required by International Maritime Organization (IMO) Resolution MSC.282(86), adopting SOLAS Reg. II-1/3-5.2, and the IMO MODU Code 2009, the aforementioned product or design does not contain any form of asbestos. .
- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.

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Work Order: 5597170-B
First Visit Date: 15-Dec-2022
Last Visit Date: 19-Dec-2022
Vendor PO Number: 124116 and 121920
Survey Location: Oslo

- Subject to satisfactory installation, testing and trials after installation onboard the vessel.
- Pressure and/or proof-load testing of the equipment/component was witnessed to the satisfaction of the attending Surveyor.
- Material test reports (MTR) were reviewed and found to be the satisfaction of the attending Surveyor. Where required by the Rules, ABS material certification reports have been verified.

Report Findings

Statement/Observation

| <i>Finding No</i> | <i>Asset</i> | <i>Survey Task</i> | <i>Date Created</i> |
|-------------------|----------------------|--|---------------------|
| 211.0 | Ship Side Gate Valve | Certification - Ship Side Gate Valve, Ship Side Gate Valve, Ship Side Gate Valve, Ship Side Gate Valve | 19-Dec-2022 |

Found

Side shell ball valves DN100 for Echo Sounder Transducer Installation

Hydrostatic pressure test was carried out at 5 bar with closed valve for 5 minutes in accordance with 2022 ABS Marine Vessel Rules 4.6.2/7.3.2.

No leakage or plastic deformation were noted during testing.

Material certificates of valves, intermediate elements and bottom flanges were provided by the Manufacturer and satisfactorily reviewed.

The valves were found covered by ABS Product Design Assessment no. 17-LD1648327-PDA.

Closing Paragraph:

The component/equipment was surveyed in accordance with the Rules, specifications, and approved drawings, as applicable, and is eligible for installation on board an ABS classed vessel subject to satisfactory installation and testing, as necessary.

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