

## Equipment Certification Report

**Asset Type** Pipe Fitting  
**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, on 03-Feb-2023 carry out the following survey and report as follows:

### Client Asset Name Quantity

Set of Two (2) Transducer Tanks 1

### Name Plate Data

ABS Label	Manufacturer	Purchaser	Designer	Destination Vessel	Spare
Set of Two (2) Transducer Tanks	SKIPPER ELECTRONICS A/S	-	SKIPPER ELECTRONICS A/S	-	Yes

### Basic Identification Data

Serial Number	Model Number	Owner Tag Number	Supplier Ref. Number
-	ETNST	-	-

### Report Details

#### ABS Stamping Maltese Cross

5670743 Yes

### Design Details

Design state	Project Number	Reviewing Organization	Rule Set Name	Rule Set Version
Product Design Assessed	22-2241511-PDA	London Engineering Department	Rules for Building and Classing Marine Vessels	2022

### Additional Data

**Test Pressure** 5 bar

## 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.
- Dimensions and tolerances were verified as required by the design approval.
- Subject to satisfactory installation, testing and trials after installation onboard the vessel.

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.

Work Order: 5670743-A  
First Visit Date: 03-Feb-2023  
Last Visit Date: 03-Feb-2023  
Vendor PO Number: 124811 and 124930  
Survey Location: Oslo

- 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.
- Major weldments were examined prior to welding as necessary.
- Welding procedure specifications and welder qualifications were reviewed and found to be satisfactory to attending ABS Surveyor. Final welding was examined upon completion.

## Report Findings

### Statement/Observation

<i>Finding No</i>	<i>Asset</i>	<i>Survey Task</i>	<i>Date Created</i>
215.0	Set of Two (2) Transducer Tanks	Certification - Set of Two (2) Transducer Tanks	03-Feb-2023

### Found

Visual inspection, dimensional control and review of material certification carried out.

Transducer tanks were found covered by ABS Product Design Assessment no. 22-2241511-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: 03-Feb-2023

### Reviewing Surveyor(s)

Work Order Reviewer: Vocke, Sebastian  
Work Order Credit Date: 06-Feb-2023



Work Order: 5670743-B  
First Visit Date: 03-Feb-2023  
Last Visit Date: 03-Feb-2023  
Vendor PO Number: 124811 and 124930  
Survey Location: Oslo

## 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, on 03-Feb-2023 carry out the following survey and report as follows:

### Client Asset Name Quantity

Ship Side Gate Valve 1

### Name Plate Data

ABS Label	Manufacturer	Purchaser	Designer	Destination Vessel	Spare
Ship Side Gate Valve	VIS VANA SAN. ITHALAT IHRACAT TIC.LTD.STI.	-	VIS VANA SAN. ITHALAT IHRACAT TIC.LTD.STI.	-	Yes

### Basic Identification Data

Serial Number	Model Number	Owner Tag Number	Supplier Ref. Number
23065	SB-100-SA	-	PWO-124930

### Report Details

**ABS Stamping** Maltese Cross  
5670743 Yes

### Design Details

Design state	Drawing Number	Reviewing Organization	Rule Set Name	Rule Set Version
Product Design Assessed	22-2329626-PDA	London Engineering Department	Rules for Building and Classing Marine Vessels	2022

### Additional Data

**Design Pressure** 5 bar  
**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),

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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.
- 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.
- An ITP submitted and reviewed by 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
216.0	-	Certification - Ship Side Gate Valve	03-Feb-2023

### Found

Ship Bottom Shell Gate Valve DN100

Valve intended for for Echo Sounder Transducer or Speed Log Sensor installation.

Valve assembly may include Intermediate Element, Bottom Flange, Blanking Plate, Intermediate tube, Intermediate Flange.

Hydrostatic pressure test was carried out at 5 bar with closed valve for 5 minutes in accordance with 2023 ABS Marine Vessel Rules 4.6.2/7.3.2.

No leakage or plastic deformation were noted during testing.

Material certificates of valve, intermediate element and bottom flange were provided by the Manufacturer and satisfactorily reviewed.

The valve was found covered by ABS Product Design Assessment no. 22-2329626-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: 03-Feb-2023

### Reviewing Surveyor(s)

Work Order Reviewer: Vocke, Sebastian  
Work Order Credit Date: 06-Feb-2023