

## 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 11-Jan-2023 carry out the following survey and report as follows:

### Client Asset Name Quantity

Ship Bottom Ball Valve 3

### Name Plate Data

ABS Label	Manufacturer	Purchaser	Designer	Destination Vessel	Spare
Ship Bottom Ball Valve	VIS VANA SAN. ITHALAT IHRACAT TIC.LTD.STI.	-	SKIPPER ELECTRONICS AS	-	Yes

### Basic Identification Data

Serial Number	Model Number	Owner Tag Number	Supplier Ref. Number
23014, 23015, 23016	SB-100-SB	-	PWO/123144

### Report Details

#### ABS Stamping Maltese Cross

5636191 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** Austenitic Cast Stainless Steel  
**Valve Size** 100 mm

## Statement of Work - Classification Service - Certification -

- 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.
- 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.

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.

- 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
213.0	Ship Bottom Ball Valve	Certification - Ship Bottom Ball Valve, Ship Bottom Ball Valve, Ship Bottom Ball Valve	11-Jan-2023

### Found

## Ship Bottom Shell Ball Valves DN100

Valves intended for for Echo Sounder Transducer, Doppler Log Sensor, or Speed Log Sensor installation.

Valves 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 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. 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):

Silvestro, Francesco  
Signed-off Date: 11-Jan-2023

### Reviewing Surveyor(s)

Work Order Reviewer: Fuglei, Tor Brodde  
Work Order Credit Date: 11-Jan-2023

## 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 11-Jan-2023 carry out the following survey and report as follows:*

### Client Asset Name Quantity

Ship Bottom Gate Valve 1

### Name Plate Data

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

### Basic Identification Data

Serial Number	Model Number	Owner Tag Number	Supplier Ref. Number
23013	SB-100-SA	-	PW0/124767-1

### Report Details

#### ABS Stamping Maltese Cross

5636191 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** Cast Bronze  
**Valve Size** 100 mm

## Statement of Work - Classification Service - Certification -

- 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.
- 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.

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- 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
214.0	Ship Bottom Gate Valve	Certification - Ship Bottom Gate Valve	11-Jan-2023

### Found

## Ship Bottom Shell Gate Valves DN100

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

Valves 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 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. 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):

Silvestro, Francesco

Signed-off Date: 11-Jan-2023

### Reviewing Surveyor(s)

Work Order Reviewer: Fuglei, Tor Brodde  
Work Order Credit Date: 11-Jan-2023