



Work Order: 4951155-A
First Visit Date: 21-Sep-2021
Last Visit Date: 20-Oct-2021
Vendor PO Number: 116827 and 117413
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, from 21-Sep-2021 to 20-Oct-2021, carry out the following survey and report as follows:

| Client Asset Name | Quantity |
|--------------------------|----------|
| Shell Valve Diam. 100 mm | 1 |

Name Plate Data

| ABS Label | Manufacturer | Purchaser | Designer | Destination Vessel | Spare |
|--------------------------|-------------------------|-----------|--------------|--------------------|-------|
| Shell Valve Diam. 100 mm | SKIPPER ELECTRONICS A/S | - | LK VALVES AB | - | Yes |

Basic Identification Data

| Serial Number | Model Number | Owner Tag Number | Supplier Ref. Number |
|---------------|--------------|------------------|----------------------|
| 21246 | SB-100-SB | - | - |

Report Details

| ABS Stamping | Maltese Cross |
|--------------|---------------|
| 4951155 | 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 | 2021 |

Additional Data

Valve Size 100 mm

Statement of Work - Classification Service - Certification -

- All parts of the machinery/equipment satisfactorily complied with the approved drawings. Amendments, if any, verified to be rectified and considered satisfactory.
- Asbestos-free declaration verified and supporting documentation reviewed.
- Subject to satisfactory installation, testing and trials after installation onboard the vessel.
- The principal data has been verified in accordance with the applicable Rules/specifications and applicable approved plans, and confirmed to be within acceptable tolerances.
- All testing (pressure/load/operational/etc.) has been carried out as applicable and verified in accordance with the applicable Rules/specifications.
- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.

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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.

- Traceability of materials used on this project has been verified.

Report Findings

Statement/Observation

| Finding No | Asset | Survey Task | Date Created |
|------------|--------------------------|--|--------------|
| 187.0 | Shell Valve Diam. 100 mm | Certification - Shell Valve Diam. 100 mm | 20-Oct-2021 |

Found

One (1) DN 100 Side shell valve including intermediate element intended for Echo Sounder Transducer Installation

Hydrostatic pressure test was carried out at 5 bar with closed valve for 5 minutes in accordance with 2021 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-Oct-2021

Reviewing Surveyor(s)

Work Order Reviewer: Vocke, Sebastian

Work Order Credit Date: 20-Oct-2021