



AMERICAN BUREAU OF SHIPPING

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| Customer Name | SKIPPER ELECTRONICS A/S | Purchase Order No. | PWO 107620/108043 |
| Attending Office | Oslo | Report Number | OS3501392 |
| First Visit Date | 23-May-2018 | Last Visit Date | 23-May-2018 |

Certification Of: Shell Valve Diam. 60 mm Quantity: One(1)
Manufacturer: SKIPPER ELECTRONICS A/S

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.) 18157
Model Number DB-60-SA

Design Details

Design State Product Design Assessed
ABS Reviewing Organization London Engineering Department
Drawing Number 17-LD1648327-PDA

Additional Data

ABS Stamping * OS3501392-A
Valve Size 60
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED

This is to Certify that the undersigned surveyor(s) to this Bureau did, at the request of the customer, carry out the following survey and report as follows:

Traceability of materials used on this project has been verified.

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.

All parts of the machinery/equipment satisfactorily complied with the approved drawings. Amendments, if any, verified to be rectified and considered satisfactory.

For details of Mechanical Properties and/or Chemical Composition, refer to the mill/matrix records.

Final markings for identification confirmed.

Side shell valves intended for Echosounder Transducer Installation

Hydrostatic pressure test was carried out at 5 bar with closed valve. No leakage or plastic deformation were noted during testing.

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 or 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 the 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.

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Surveyor(s) to The American Bureau of Shipping
Attending Surveyors

Fuglei Tor Brodde

Electronically Signed on 24-May-2018

Reviewed By

Vocke, Sebastian

Electronically Signed on 24-May-2018, Gothenburg Port



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