



AMERICAN BUREAU OF SHIPPING

Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	89190
Attending Office	Oslo	Report Number	OS2432302
First Visit Date	03-Sep-2013	Last Visit Date	03-Sep-2013

Certification Of: Valve 100mm for Speed log / Echosounder Quantity: One(1)
Transducer
Manufacturer: SKIPPER ELECTRONICS A/S

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.) 13283
Model Number SB-100-SB
Designer Name SKIPPER ELECTRONICS A/S

Design Details

Design State Product Design Assessed
ABS Reviewing Organization London Engineering Department
Drawing Number 07-LD231781/1-PDA

Additional Data

ABS Stamping * OS2432302
Valve Size 100
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar

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.

The principal data has been verified in accordance with the applicable Rules/specifications and 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.

Manufacturer confirmed the product does not contain asbestos through Asbestos Free Declarations and/or supporting documents.

Manufacturer test records and/or mill certificates were confirmed to comply with specification.

Final markings for identification confirmed.

Hydrostatic pressure test was carried out at 5 bar with open and closed valve, no leakages or plastic deformation were noted.

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**

Hognesen Marius

Electronically Signed on 15-Oct-2013

Reviewed By
Refshauge, Arne S.

Electronically Signed on 15-Oct-2013, Oslo Port



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