



AMERICAN BUREAU OF SHIPPING

Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	252856
Attending Office	Oslo	Report Number	OS2125632
First Visit Date	26-Mar-2012	Last Visit Date	26-Mar-2012

Certification Of: Valve for Echosounder Transducer Installation Quantity: One(1)
3
Manufacturer: SKIPPER ELECTRONICS A/S

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.) 12103
Model Number SB-100-SB

Additional Data

ABS Stamping * OS2125632-A
Valve Size 100
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.

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.

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

Fuglei Tor Brodde

Electronically Signed on 10-Apr-2012

Reviewed By
Laureys, Guy

Electronically Signed on 23-Apr-2012, Oslo Port

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.



AMERICAN BUREAU OF SHIPPING

Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	252856
Attending Office	Oslo	Report Number	OS2125632
First Visit Date	26-Mar-2012	Last Visit Date	26-Mar-2012

Certification Of: Set of three (3) Intermediate Element for Echosounder Transducer Installation
Quantity: One(1)
Manufacturer: SKIPPER ELECTRONICS A/S

Survey Location: Oslo, Norway

Equipment Data

Model Number Flanged Intermediate Element 100 mm
Designer Name SKIPPER ELECTRONICS A/S
Vendor Tag Number C1256

Design Details

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

Additional Data

ABS Stamping * OS2125632-B
Diameter 100 mm
Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Test 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.

Welding plans, procedures & welder qualifications have been reviewed as required by Rule/Specifications.

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.

Final markings for identification confirmed.

Hydrostatic pressure test to intermediate element connected to the valve flange was carried out at 5 bar, 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.