



AMERICAN BUREAU OF SHIPPING

Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	517303
Attending Office	Oslo	Report Number	OS2262321
First Visit Date	21-Dec-2012	Last Visit Date	02-Jan-2013

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

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.) 12373
Model Number SB-100-SB
Purchaser Name STOCK

Design Details

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

Additional Data

ABS Stamping ✖ OS2262321-A
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.

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.

Subject to satisfactory installation, testing and trials after installation onboard the vessel.

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

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

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

Fuglei Tor Brodde

Electronically Signed on 02-Jan-2013

Reviewed By

Silvestro, Francesco

Electronically Signed on 05-Feb-2013, Oslo Port



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

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.) 12374
Model Number SB-100-SB
Purchaser Name STOCK

Design Details

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

Additional Data

ABS Stamping ✖ OS2262321-A
Valve Size 100
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar

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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.

Subject to satisfactory installation, testing and trials after installation onboard the vessel.

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

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

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.

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

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.) 12375
Model Number SB-100-SB
Purchaser Name STOCK

Design Details

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

Additional Data

ABS Stamping ✖ OS2262321-A
Valve Size 100
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar

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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.

Subject to satisfactory installation, testing and trials after installation onboard the vessel.

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

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

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.

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Fuglei Tor Brodde

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Reviewed By

Silvestro, Francesco

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First Visit Date	21-Dec-2012	Last Visit Date	02-Jan-2013

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

Quantity: One(1)

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.) C1256 C2942
Model Number Flanged Intermediate Element 100 mm
Designer Name SKIPPER ELECTRONICS A/S

Additional Data

ABS Stamping ✖ OS2262321-B
Diameter 100 mm
Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Test Pressure 5 bar

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Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.

Subject to satisfactory installation, testing and trials after installation onboard the vessel.

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

Final markings for identification confirmed.

Hydrostatic pressure test of intermediate element connected to the valve flange was carried out at 5 bar, no leakages or plastic deformation were noted.

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

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