



AMERICAN BUREAU OF SHIPPING

Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	80335
Attending Office	Oslo	Report Number	OS2065563
First Visit Date	10-Nov-2011	Last Visit Date	15-Nov-2011

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

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.) AACV01
Model Number SB-200 ECHO
Vendor Tag Number 92511

Design Details

Design State Product Design Assessed
ABS Reviewing Organization London Engineering Department
Drawing Number 06-LD169972/1-PDA

Additional Data

ABS Stamping * OS2065563
Valve Size 200
Valve Material Cast Bronze - Bronze - 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 test records and/or mill certificates were confirmed to comply with specification.

Final markings for identification confirmed.

Hydrostatic pressure test carried out at 15 bar, no leakages detected.

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

Silvestro Francesco

Electronically Signed on 15-Nov-2011

Reviewed By
Refshauge, Arne S.

Electronically Signed on 23-Nov-2011, 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.



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Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	80335
Attending Office	Oslo	Report Number	OS2065563
First Visit Date	10-Nov-2011	Last Visit Date	15-Nov-2011

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

Survey Location: Oslo, Norway

Equipment Data

Model Number Flanged Intermediate Element 200 mm
Designer Name SKIPPER ELECTRONICS A/S
Vendor Tag Number SB-4004-rev.00

Additional Data

ABS Stamping * OS2065563
Diameter 200 mm
Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar
Test Pressure 15 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.

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

Final markings for identification confirmed.

Hydrostatic pressure test carried out at 15 bar, no leakages detected.

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

Silvestro Francesco

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