



AMERICAN BUREAU OF SHIPPING

Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	97492
Attending Office	Oslo	Report Number	OS2897820
First Visit Date	07-May-2015	Last Visit Date	11-May-2015

Certification Of: Shell Valve Diam. 100 mm Quantity: One(1)
Manufacturer: SKIPPER ELECTRONICS A/S

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.)	BAAV99
Model Number	SB-100-SB
Vendor Tag Number	CXCG4

Design Details

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

Additional Data

ABS Stamping	✱ OS2897820
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.

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.

Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	97492
Attending Office	Oslo	Report Number	OS2897820
First Visit Date	07-May-2015	Last Visit Date	11-May-2015

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

Hognesen Marius

Electronically Signed on 11-May-2015

Reviewed By
Fuglei, Tor Brodde

Electronically Signed on 18-May-2015, 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.