AMERICAN BUREAU OF SHIPPING

Customer Name	**SKIPPER ELECTRONICS A/S**	Purchase Order No.	**81712**
Attending Office	**Oslo**	Report Number	**OS2111792**
First Visit Date	**23-Feb-2012**	Last Visit Date	**23-Feb-2012**

Certification Of: Valve for Echosounder Transducer Installation Quantity: One(1)
4
Manufacturer: SKIPPER ELECTRONICS A/S

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.)	A12548
Model Number	SB-100-SB
Vendor Tag Number	12065

Design Details

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

Additional Data

ABS Stamping	✠ OS2111792
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.
Subject to satisfactory installation, testing and trials after installation onboard the vessel.
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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Surveyor(s) to The American Bureau of Shipping
Attending Surveyors

Silvestro Francesco — Electronically Signed on 05-Mar-2012

Reviewed By
Laureys, Guy — Electronically Signed on 06-Mar-2012, Oslo Port