AMERICAN BUREAU OF SHIPPING

Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	90118
Attending Office	Oslo	Report Number	OS2475274
First Visit Date	04-Nov-2013	Last Visit Date	05-Nov-2013

Certification Of: Valve 100mm for Speed log / Echosounder Transducer
Manufacturer: SKIPPER ELECTRONICS A/S
Quantity: One(1)

Survey Location: Oslo, Norway

Equipment Data

Manufacturer Number(S. No.)	13351
Model Number	SB-100-SA
Designer Name	SKIPPER ELECTRONICS A/S

Design Details

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

Additional Data

ABS Stamping	✠ OS2475274-A
Valve Size	100
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.
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.
Manufacturer test records and/or mill certificates were confirmed to comply with specification.
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

Hognesen Marius — Electronically Signed on 05-Nov-2013

Reviewed By
Fuglei, Tor Brodde — Electronically Signed on 26-Nov-2013, Oslo Port