

## AMERICAN BUREAU OF SHIPPING

Customer Name Attending Office First Visit Date	SKIPPER ELECTRO Oslo 01-Jul-2019	DNICS A/S	Purchase Order No. Report Number Last Visit Date	PWO 111057 / 111059 OS3694339 01-Jul-2019	
Certification Of:		Diam. 100 mm pr: SKIPPER ELECTRONICS A/S	Quantity: One(1)		
Survey Location:	Oslo, Norwa	У			
Equipment Data					
Manufacturer Number(S. No.) Model Number		19186 SB-100-SB			
Design Details					
Design State		Product Design Assessed			
ABS Reviewing Organization Drawing Number		London Engineering Department 17-LD1648327-PDA			
Additional Data					
ABS Stamping		* OS3694339-A			
Valve Size		100	100		
Valve Material		•	Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED		
Design Pressure		5 bar	5 bar		

Traceability of materials used on this project has been verified.

The principal data has been verified in accordance with the applicable Rules/specifications and applicable 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.

All parts of the machinery/equipment satisfactorily complied with the approved drawings. Amendments, if any, verified to be rectified and considered satisfactory.

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

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.

## The valves were found covered by ABS Product Design Assessment no. 17-LD1648327-PDA.

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 01-Jul-2019

Reviewed By Vocke, Sebastian

Electronically Signed on 03-Jul-2019, Gothenburg Port



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