Customer Name Attending Office First Visit Date	SKIPPER ELECTRONICS A/S Oslo 26-Apr-2018		Purchase Order No. Report Number Last Visit Date		18111 - 18115 OS3489338 30-Apr-2018
Certification Of:	Shell Valve 100 mr Manufacturer: SKIF	n PPER ELECTRONICS A/S	Quantity:	One(1)	
Survey Location:	Oslo, Norway				
Equipment Data					
Manufacturer Number(Model Number	,	8113)B-100-SB			
Additional Data					
ABS Stamping Valve Size Valve Material Design Pressure	∗ OS3489338-A 100 Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED 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 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.

Asbestos-free declaration verified and supporting documentation reviewed.

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. Valve verified to be constructed and tested as per SVR 4-6-2 and MODU 2017 4-2-2/9.

The subject valve was found approved as per PDA 17-LD1648327-PDA dated 17JUL2017.

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.

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

Refshauge Arne S.

Electronically Signed on 30-Apr-2018

Reviewed By Silvestro, Francesco

Electronically Signed on 30-Apr-2018, Oslo Port



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