# AMERICAN BUREAU OF SHIPPING

Customer Name	SKIPPER ELECTRON	IICS A/S	Purchase C		
Attending Office	Oslo		Report Num		OS3568806
First Visit Date	12-Oct-2018		Last Visit Date		23-Oct-2018
Certification Of:	Shell Valve Di Manufacturer:	am. 60 mm SKIPPER ELECTRONICS A/S	Quantity:	One(1)	
Survey Location: Osio, Norway					
Equipment Data					
Manufacturer Numbe	r(S. No.)	18312			
Model Number		DB-60-LA			
Purchaser Name		For stock			
Design Details					
Design State		Product Design Assessed			
ABS Reviewing Organization		London Engineering Departr	nent		
Additional Data			~~~		
ABS Stamping		* OS3568806-A			
Valve Size		60		-	
Valve Material		Stainless Steel - High Streng 3 bar	th Steel - NO	T SPECIF	IED - NOT SPECIFIED

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.

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.

Valve found approved as per PDA, 17-LD1648327-PDA with expiry date 16 JUL 2022.

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 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
Attending Office	Oslo
First Visit Date	12-Oct-2018

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

### Fuglei Tor Brodde

Electronically Signed on 26-Oct-2018

Reviewed By Vocke, Sebastian

Electronically Signed on 26-Oct-2018, Gothenburg Port



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AMERICAN BUREAU OF SHIPPING					
Customer NameSKIPPAttending OfficeOsloFirst Visit Date12-Oct	ER ELECTRONICS A/S	Purchase Order No. Report Number Last Visit Date	OS3568806 23-Oct-2018		
Certification Of:	Shell Valve Diam. 60 mm Manufacturer: SKIPPER ELECTRONICS A/S	Quantity: One(1)			
Survey Location:	Oslo, Norway				
Equipment Data					
Manufacturer Number(S. No.) Model Number Purchaser Name	18312 DB-60-LA For stock				
Design Details					
Design State ABS Reviewing Organization	Product Design Assessed London Engineering Departn	nent			
Additional Data		-2			
ABS Stamping Valve Size Valve Material Design Pressure	∗ OS3568806-A 60 Stainless Steel - High Streng 3 bar	th Steel - NOT SPECIF	TED - NOT SPECIFIED		

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Attending Office	Oslo
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Purchase Order No.Report NumberOS350Last Visit Date23-Oc

OS3568806 23-Oct-2018

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Page 2 of 2