

DET NORSKE VERITAS

Certificate No OSL-11-4623

PRODUCT CERTIFICATE

Manufacturer:		SKIPP	ER Electr	onics AS		
Manufacturer's order No.:		80046				
Purchaser:		L-3 Co	m-Klein			
Purchaser's order No.:	··					
The product is intended for						
Yard:		(TBD)			
Yard No.:						
Name of vessel:		"	,,			
DNV Id. No.:		P261.1C				
THIS IS TO CERTIFY:						
that the product:		Botto	m Penetra	ation for Echo Sounder,	Sonar or Log	
Type designation: Intended purpose: Serial No(s):		ETNS. The g	JB/ETNSL ate valve r l log or ec	DB-60-SA, SB-100-SA B-100mm may be used in conjunct ho sounder		
Has been built and tested in ac	cordance with the relev	ant requ	uirements o	of:		
DNV Rules for Classification:	☑ Ships☐ Other standards:	⊠H	SLC	☐ Naval	☑ Offshore	
Remarks (if more than one line						
The product was marked: NV-O	SL-11-4623		On: Gate	• Valve		
This field is only to be filled in whe Manufacturing Survey Arrangeme The undersigned manufacturer de been built and tested in accordance stated above and the conditions of Manufacturing Survey Arra Quality System Certificate	ent (MSA). eclares that the product/system ce with the specification/standa eferred to in angement No: R-1948	n has ard		: Certificate is only valid weeyor.	hen signed by a DNV	
For Manufacturer:				For Det Norsk e	e Veritas AS	
Place: Oslo			Place: Høvik			
Date: 16.12.2011			Date: 2012-01-30			
Date. 10.12.2011						
	Anders Karlstad			Thomas R. Jacobsen		
Product Technician			Senior Surveyor			

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Remarks: The valve housing has been subjected to a hydrostatic pressure test, and the valve assembly to a seat leakage te 5 bar. Holding time 5 minutes.	t to
Marking and certificate numbers for the different parts:	
Drawings with dates of approval and/or type approval certificate number: DNV S-6000	

DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA www.dnv.com Form No.: 20.92a Issue: October 2010 Page 2 of 2