

## DET NORSKE VERITAS

Certificate No OSL-11-4660

## PRODUCT CERTIFICATE

Manufacturer:		SKIPF	PER Electi	onics AS		
Manufacturer's order No.:	•	79286				
Purchaser:	•	Kong	sberg Mar			
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:		Bottom Penetration for Echo Sounder, Sonar or Log				
Type designation: Intended purpose: Serial No(s):		ETNS The g	JB/ETNSI ate valve I log or ed	DB-60-SA, SB-100-S _B-100mm may be used in conjunc tho sounder	B_X_, DB-100-SB,	
Has been built and tested in ac	cordance with the relev	ant req	uirements	of:		
DNV Rules for Classification:	<ul><li>☑ Ships</li><li>☐ Other standards:</li></ul>	⊠ H	SLC	☐ Naval	⊠ Offshore	
Remarks (if more than one line						
The product was marked: NV-O	SL-11360		On: <b>Gat</b> e			
This field is only to be filled in whe Manufacturing Survey Arrangement The undersigned manufacturer debeen built and tested in accordant stated above and the conditions of Manufacturing Survey Arra Quality System Certificate	ent (MSA).  eclares that the product/system ce with the specification/stand eferred to in angement No: R-1948	n has ard		s Certificate is only valid veyor.	when signed by a DNV	
For Manufacturer:				For <b>Det Norsk</b>	e Veritas AS	
Place: <b>Oslo</b>			Place: <b>Høvik</b>			
Date: 17.10.2011			Dat	e: <b>2011-12-06</b>		
7	Anders Karlstad			Thomas R. Jacobsem		
Product Technician			I	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