

DET NORSKE VERITAS

Certificate No OSL-11-4626

PRODUCT CERTIFICATE

Manufacturer:		SKIPP	ER Electro	onics AS		
Manufacturer's order No.:	••	79625				
Purchaser:	••	Rayth	eon			
Purchaser's order No.:						
The product is intended for						
Yard:		(TBD)			
Yard No.:						
Name of vessel:		"	"			
DNV Id. No.:		P261.1	C			
THIS IS TO CERTIFY:						
that the product:		Bottom Penetration for Echo Sounder, Sonar or Log				
Type designation: Intended purpose: Serial No(s):		ETNS. The ga	JB/ETNSL ate valve r	DB-60-SA, SB-100-SB 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	, use page 2):					
The product was marked: NV-OSL-11326			On: Gate	On: Gate Valve		
This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA).			This Certificate is only valid when signed by a DNV surveyor.			
The undersigned manufacturer de been built and tested in accordance stated above and the conditions rumanufacturing Survey Arra Quality System Certificate	ce with the specification/standa eferred to in angement No: R-1948	ard				
For Manufacturer:				For Det Norske	Veritas AS	
Place: Oslo			Plac	e: Høvik		
Date: 17.10.2011			Date	e: 2011-12-06		
54.6. THI 0.20 TH						
Anders	s Karlstad			Thomas R. J	acobsen	
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