

DET NORSKE VERITAS

Certificate No OSL-11-4386

PRODUCT CERTIFICATE

Manufacturer:		SKIPPE	R Electronic	cs AS		
		79624				
Purchaser:		Raytheo	n			
Purchaser's order No.:	trurer's order No.: er: Raytheon er's order No.: duct is intended for (TBD) .: f vessel: No.: P261.1C Bottom Penetration for Echo Soi Besignation: d purpose: Joseph Golden Sale Nounder Joseph Golden Sounder Joseph Golden Solden Sounder Joseph Golden Sounder					
Intriacturer's order No.: Inchaser's order N						
Yard:		(TBD)				
Yard No.:						
Name of vessel:		<i>u</i>				
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):		ETNSJE The gate speed le	B/ETNSLB-100mm te valve may be used in conjunction with installation of			
Has been built and tested in ac DNV Rules for Classification:	⊠ Ships	⊠ HSLC		□ Naval	⊠ Offshore	
Remarks (if more than one line	, use page 2):					
The product was marked: NV-O	SL-11086	(On: Gate Va	lve		
		а		•	hen signed by a DNV	
been built and tested in accordange stated above and the conditions of Manufacturing Survey Arra	ce with the specification/standa eferred to in angement No: R-1948	ard				
For Manufacturer:				For Det Norsk e	e Veritas AS	
Place: Oslo			Place: F	løvik		
Date: 17.10.2011			Date: 20	011-12-06		

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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