

DET NORSKE VERITAS

Certificate No OSL-11-4739

PRODUCT CERTIFICATE

Manufacturer:		SKIPPER Electronics AS			
Manufacturer's order No.:	•	81418			
Purchaser:	•	RAYTI	HEON		
Purchaser's order No.:	· 				
The product is intended for					
Yard:		(TBD)		
Yard No.:	_				
Name of vessel:		"	"		
DNV Id. No.:		P261.1	С		
THIS IS TO CERTIFY:					
that the product:		Bottom Penetration for Echo Sounder, Sonar or Log			
Type designation: Intended purpose: Serial No(s):		SB-60-SA_X, DB-60-SA, SB-100-SB, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 11439			
Has been built and tested in ac	cordance with the relev	ant requ	irements o	of:	
DNV Rules for Classification:	☑ Ships☐ Other standards:	⊠ H	SLC	☐ Naval	
Remarks (if more than one line			00.4.	Webse	
The product was marked: NV-O			On: Gate		
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/stand eferred to in angement No: R-1948	n has ard		Certificate is only valid wheyor.	nen signed by a DNV
For Manufacturer:				For Det Norske	Veritas AS
Place: Oslo			Plac	e: Høvik	
Date: 03.02.2012			Date	e: 2012-05-03	
Anders	s Karlstad			Thomas R. J	
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