

DET NORSKE VERITAS

Certificate No OSL-11-4644

PRODUCT CERTIFICATE

Manufacturer:		SKIPPER Electronics AS			
Manufacturer's order No.:		81417			
Purchaser: Purchaser's order No.:		RAYTHEON			
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):		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 11344			
Has been built and tested in ac	cordance with the relev	ant requir	ements of	f:	
DNV Rules for Classification:	NV Rules for Classification: ⊠ Ships ⊠ F ☐ Other standards:		_C	☐ Naval	
Remarks (if more than one line			On: Coto	Mahra	
The product was marked: NV-O			On: Gate		DANY
This field is only to be filled in who Manufacturing Survey Arrangeme The undersigned manufacturer do been built and tested in accordance stated above and the conditions of Manufacturing Survey Arra Quality System Certificate	ent (MSA). eclares that the product/systen ce with the specification/stand eferred to in angement No: R-1948	n has lard	surve		
For Manufacturer:			For Det Norske Veritas AS		
Place: Oslo			Place: Høvik		
Date: 03.02.2012			Date: 2012-05-03		
Anders Karlstad Product Technician			Thomas R. Jacobsen Senior Surveyor		

Certificate No OSL-11-4644

Technical data:
Remarks: The valve housing has been subjected to a hydrostatic pressure test, and the valve assembly to a seat leakage test to 5 bar. Holding time 5 minutes.
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