

DET NORSKE VERITAS

Certificate No OSL-11-4615

PRODUCT CERTIFICATE

Manufacturer:		SKIPPER	R Electron	ics AS		
Manufacturer's order No.:		79625				
Purchaser:		Raytheo	n			
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):		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 11315				
Has been built and tested in ac	cordance with the relev	ant require	ements of:			
DNV Rules for Classification:	☑ Ships☐ Other standards:	⊠ HSL	С	☐ Naval	○ Offshore	
Remarks (if more than one line						
The product was marked: NV-O	SL-11315		n: Gate V			
This field is only to be filled in who Manufacturing Survey Arrangement The undersigned manufacturer do been 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 lard	This Co survey	ertificate is only valid w or.	hen signed by a DNV	
For Manufacturer:				For Det Norsk e	e Veritas AS	
Place: Oslo			Place: Høvik			
			Date: 2011-12-06			
Date: 17.10.2011			Date: 2	2011-12-06		
Anders	s Karlstad			Thomas R.		
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