

DET NORSKE VERITAS

Certificate No OSL-11-4616

PRODUCT CERTIFICATE

Manufacturer:		SKIPPER Electronics AS				
Manufacturer's order No.:		80386				
Purchaser: Purchaser's order No.:		Norwegian Partners				
						The product is intended for
Yard:		(TBD)				
Yard No.:						
Name of vessel:		u n				
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, DB100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 11316				
Has been built and tested in ac	cordance with the relev	ant req	uirements o	of:		
DNV Rules for Classification: ⊠ Ships ⊠ I ☐ Other standards:		⊠H	SLC	☐ Naval	☑ Offshore	
Remarks (if more than one line) The product was marked: NV-O			On: Gate	. Valvo		
					do an airmand bur a DAN/	
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 remaining Survey Arra Quality System Contification	ent (MSA). eclares that the product/system ce with the specification/standa eferred to in angement No: R-1948	n has ard		certificate is only valid weeyor.	men signed by a DNV	
Quality System Certificate No: TI 151 ISO 9001:2008			For Det Norske Veritas AS			
For Manufacturer: Place: Oslo			Place: Høvik			
Date: 24.11.2011			Date	e: 2011-12-13		
Anders Karlstad				Thomas R. Jacobsen		
Product Technician				Senior Surveyor		

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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					

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