

DET NORSKE VERITAS

Certificate No OSL-11-4679

PRODUCT CERTIFICATE

Manufacturer:		SKIPPER Electronics AS				
Manufacturer's order No.:		80382				
Purchaser: Purchaser's order No.:		L3-USA				
						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-SA, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 11379				
Has been built and tested in ac	cordance with the relev	ant requ	irements c	f:		
DNV Rules for Classification:	✓ Rules for Classification: ⊠ Ships ⊠ H: □ Other standards:		SLC	☐ Naval	○ Offshore	
Remarks (if more than one line						
The product was marked: NV-O	SL-11-4679		On: Gate	Valve		
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	This surve	Certificate is only valid weyor.	hen signed by a DNV	
For Manufacturer:			For Det Norske Veritas AS			
Place: Oslo			Place: Høvik			
Date: 16.12.2011			Date	Date: 2012-01-30		
Anders Karlstad Product Technician				Thomas R. Jacobsen 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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