

DET NORSKE VERITAS

Certificate No OSL-11-4323

PRODUCT CERTIFICATE

Manufacturer:		SKIPPER Electronics AS				
Manufacturer's order No.: Purchaser:		75216				
		Radio Holland Belium N.V. 2140 Antwerpen Belgium				
Purchaser's order No.:						
The product is intended for						
Yard:		(TBD)				
Yard No.:						
Name of vessel:		66 3	;			
DNV ld. No.:		P261.10	3			
THIS IS TO CERTIFY:						
that the product:		Bottom	Penetration f	or Echo Sounder	Conoroulos	
Type designation:		SB-60-LA, DB-60-SA, SB-100-LA, DB-100-SBX_, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of				
Intended purpose:			og or echo so	e usea in conjune under	ction with installation of	
Serial No(s):	11023					
Has been built and tested in ac	cordance with the r	elevant requir	ements of:			
DNV Rules for Classification:	⊠ Ships	⊠ HSI	LC	☐ Naval	○ Offshore	
DNV Rules for Classification:	Ships Other standard Other standar		LC	☐ Naval		
	Other standard		LC	☐ Naval	⊠ Offshore	
	Other standard		LC	□ Naval	⊠ Offshore	
	Other standard		rc	□ Naval	⊠ Offshore	
Remarks (if more than one line,	Other standard	ds:	LC On: Gate Valve		⊠ Offshore	
Remarks (if more than one line,	Other standard, use page 2): SL-11-4323	ds:	On: Gate Valve This Certifi)	☑ Offshore	
Remarks (if more than one line, The product was marked: NV-O This field is only to be filled in whe Manufacturing Survey Arrangement	Other standard , use page 2): SL-11-4323 en the certification is base nt (MSA).	ds: (ded on a	On: Gate Valve)		
Remarks (if more than one line, The product was marked: NV-O 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 re	Other standard, use page 2): SL-11-4323 on the certification is base int (MSA). celares that the product/syce with the specification/seferred to in	ds: (ed on a ystem has standard	On: Gate Valve This Certifi)		
Remarks (if more than one line, The product was marked: NV-O This field is only to be filled in whe Manufacturing Survey Arrangement The undersigned manufacturer de been built and tested in accordance	Other standard, use page 2): SL-11-4323 In the certification is base int (MSA). Includes that the product/system with the specification/seferred to in langement No: R-194	ds: (ed on a yestern has standard	On: Gate Valve This Certifi)		
Remarks (if more than one line, The product was marked: NV-O This field is only to be filled in whe Manufacturing Survey Arrangeme. The undersigned manufacturer de been built and tested in accordanc stated above and the conditions re Manufacturing Survey Arra	Other standard, use page 2): SL-11-4323 In the certification is base int (MSA). Includes that the product/system with the specification/seferred to in langement No: R-194	ds: (ed on a yestern has standard	On: Gate Valve This Certifi)	vhen signed by a DNV	
Remarks (if more than one line, The product was marked: NV-O This field is only to be filled in whe Manufacturing Survey Arrangeme. The undersigned manufacturer de been built and tested in accordanc stated above and the conditions re Manufacturing Survey Arra Quality System Certificate	Other standard, use page 2): SL-11-4323 In the certification is base int (MSA). Includes that the product/system with the specification/seferred to in langement No: R-194	ds: (ed on a yestern has standard	On: Gate Valve This Certifi	icate is only valid v	vhen signed by a DNV	
Remarks (if more than one line, The product was marked: NV-O: This field is only to be filled in whe Manufacturing Survey Arrangement The undersigned manufacturer de been built and tested in accordance stated above and the conditions re Manufacturing Survey Arrangement Quality System Certificate For Manufacturer: Place: Oslo	Other standard, use page 2): SL-11-4323 In the certification is base int (MSA). Includes that the product/system with the specification/seferred to in langement No: R-194	ds: (ed on a yestern has standard	On: Gate Valve This Certifi surveyor. Place:	icate is only valid v	vhen signed by a DNV	
Remarks (if more than one line, The product was marked: NV-O: This field is only to be filled in whe Manufacturing Survey Arrangeme The undersigned manufacturer de been built and tested in accordanc stated above and the conditions re Manufacturing Survey Arra Quality System Certificate For Manufacturer: Place: Oslo Date: 18.01.2011	Other standard , use page 2): SL-11-4323 In the certification is base ont (MSA). Inclares that the product/syce with the specification/seferred to in angement No: R-194 No: TI 151 ISO 900	ed on a yestem has standard 48 01:2008	On: Gate Valve This Certifi surveyor.	icate is only valid v	vhen signed by a DNV	
Remarks (if more than one line, The product was marked: NV-O This field is only to be filled in whe Manufacturing Survey Arrangeme The undersigned manufacturer de been built and tested in accordanc stated above and the conditions re Manufacturing Survey Arra Quality System Certificate For Manufacturer: Place: Oslo Date: 18.01.2011	Other standard, use page 2): SL-11-4323 In the certification is base int (MSA). Includes that the product/system with the specification/seferred to in langement No: R-194	ed on a yestem has standard 48 01:2008	On: Gate Valve This Certifi surveyor. Place:	icate is only valid v	vhen signed by a DNV	
Remarks (if more than one line) The product was marked: NV-O This field is only to be filled in whe Manufacturing Survey Arrangement of the undersigned manufacturer de been built and tested in accordance stated above and the conditions remained that the survey Arrangement of the conditions of the condition of	Other standard use page 2): SL-11-4323 In the certification is base ont (MSA). Inclares that the product/sy be with the specification/seferred to in angement No: R-194 No: TI 151 ISO 900	ed on a yestem has standard 48 01:2008	On: Gate Valve This Certifi surveyor. Place:	icate is only valid v	vhen signed by a DNV	

Certificate No OSL-11-4323

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