

DET NORSKE VERITAS

Certificate No OSL-12-4520

PRODUCT CERTIFICATE

Manufacturer:		SKIPPER Electronics AS 84975					
Purchaser:	••	Navigator United					
Manufacturer's order No.: Purchaser: Purchaser's order No.: The product is intended for Yard: Yard No.: Name of vessel: DNV Id. No.: THIS IS TO CERTIFY: that the product: Type designation: Intended purpose: Serial No(s): Has been built and tested in accordance with the rele DNV Rules for Classification: DNV Rules for Classification: Remarks (if more than one line, use page 2): The product was marked: NV-OSL-12-4520 This field is only to be filled in when the certification is based of Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/syste been built and tested in accordance with the specification/stan stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948							
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 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 speed log or echo sounder Serial No(s): Has been built and tested in accordance with the relevant requirements of: DNV Rules for Classification: Ships HSLC Naval Offshore Other standards: Remarks (if more than one line, use page 2): The product was marked: NV-OSL-12-4520 On: Gate Valve This field is only to be filled in when the certification is based on a This Certificate is only valid when signed by a DNV							
Manufacturer's order No.: Purchaser: Navigator United Purchaser's order No.: The product is intended for Yard: Yard No.: Name of vessel: DNV Id. No.: P261.1C THIS IS TO CERTIFY: that the product: Bottom Penetration for Echo Sounder SB-60-SA_X_DB-60-SA, SB-100 ETNSJB/ETNSLB-100mm The gate valve may be used in conjunt speed log or echo sounder Serial No(s): Has been built and tested in accordance with the relevant requirements of: DNV Rules for Classification: Ships HSLC Naval Other standards: Remarks (if more than one line, use page 2): The product was marked: NV-OSL-12-4520 This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the productisystem has been built and tested in accordance with the specification/standard stated above and the conditions reterred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:2008 For Manufacturer: Place: Oslo Date: 02.11.2012 Anders Karlstad Håkon	·		(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					
Intended purpose:		ETNSJE The gate speed le	SJB/ETNSLB-100mm gate valve may be used in conjunction with installation of d log or echo sounder				
	⊠ Ships	·-		□ Naval	⊠ Offshore		
		(On: Gate Val	ve			
This field is only to be filled in when the certification is based on a			This Certificate is only valid when signed by a DNV				
been built and tested in accordan stated above and the conditions r Manufacturing Survey Arra	ce with the specification/standa eferred to in angement No: R-1948	ard	Surveyor	For Det Norsk e	e Veritas AS		
For Manufacturer:				1 of Det Norsk	, ventus Ao		
Place: Oslo	Botto "P261. Botto "P261. Botto SB-6 ETNS The g speed 12220 ed in accordance with the relevant receptation: Ships Other standards: one line, use page 2): I: NV-OSL-12-4520 ed in when the certification is based on a rangement (MSA). acturer declares that the product/system has accordance with the specification/standard nditions referred to in vey Arrangement No: R-1948 rtificate No: TI 151 ISO 9001:2008		Place:				
Date: 02.11.2012			Date:				
1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			Håkon Karlsen 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