

DET NORSKE VERITAS

Certificate No OSL-11-4684

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	80977
Purchaser:	KONGSBERG MARITIME
Purchaser's order No.:	
The product is intended for	
Yard:	(TBD)
Yard No.:	
Name of vessel:	u 99
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-LA, DB-60-SA, SB-100-SBX_, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 11384
Has been built and tested in accordance with the rele	levant requirements of
rias been built and tested in accordance with the rele	revant requirements or.
DNV Rules for Classification: Ships	☐ HSLC ☐ Naval ☐ Offshore
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DNV Rules for Classification: ⊠ Ships ☐ Other standards: Remarks (if more than one line, use page 2):	HSLC □ Naval ☑ Offshore
DNV Rules for Classification: Ships Other standards: Remarks (if more than one line, use page 2): The product was marked: NV-OSL-11-4684	HSLC □ Naval ☑ Offshore S: On: Gate Valve
DNV Rules for Classification: ⊠ Ships ☐ Other standards: Remarks (if more than one line, use page 2):	HSLC
DNV Rules for Classification: Ships Other standards: Remarks (if more than one line, use page 2): The product was marked: NV-OSL-11-4684 This field is only to be filled in when the certification is based Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/syst been built and tested in accordance with the specification/stal stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001	HSLC
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DNV Rules for Classification: Ships Other standards: Remarks (if more than one line, use page 2): The product was marked: NV-OSL-11-4684 This field is only to be filled in when the certification is based Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/syst been built and tested in accordance with the specification/star stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001 For Manufacturer: Place: Oslo	On: Gate Valve This Certificate is only valid when signed by a DNV surveyor. Stem has andard 8 11:2008 For Det Norske Veritas AS Place: Høvik

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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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