

DET NORSKE VERITAS

Certificate No OSL-11-4646

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
	79624
Purchaser:	Raytheon
Purchaser's order No.:	***************************************
The product is intended for	
Yard:	(TBD)
Yard No.:	
Name of vessel:	ii 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-SA_X_, DB-60-SA, SB-100-SB, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 11346
Has been built and tested in accordance with the relev	vant requirements of:
DNV Rules for Classification: ⊠ Ships	
DNV Rules for Classification: ☐ Ships ☐ Other standards:	☐ HSLC ☐ Naval ☐ Offshore
☐ Other standards:	
Other standards:	☐ Naval ☐ Offshore On: Gate Valve
Other standards: Control of the product was marked: NV-OSL-11346 This field is only to be filled in when the certification is based on Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/systen been built and tested in accordance with the specification/stand stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948	On: Gate Valve This Certificate is only valid when signed by a DNV surveyor.
Other standards: Remarks (if more than one line, use page 2): The product was marked: NV-OSL-11346 This field is only to be filled in when the certification is based on Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/systen been built and tested in accordance with the specification/stand stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:2	On: Gate Valve This Certificate is only valid when signed by a DNV 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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