

## **DET NORSKE VERITAS**

## PRODUCT CERTIFICATE

lanufacturer:	SKIPPER Electronics AS
fanufacturer's order No.:	78514
Purchaser:	STX Engine Co. Kyeong-Do Korea
Purchaser's order No.:	
The product is intended for	
/ard:	(TBD)
/ard No.:	
Name of vessel:	66 99
ONV Id. No.:	P261.1C
THIS IS TO CERTIFY:	
that the product:	Bottom Penetration for Echo Sounder, Sonar or Log
Type designation:	SB-60-SA, DB-60-SA, SB-100-LAX_, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of
Intended purpose:	speed log or echo sounder
Serial No(s):	11273
Has been built and tested in accordance	ce with the relevant requirements of:
DNV Rules for Classification: St	D Marral IVI Ottoboro
По	ther standards:
	iligi staliuulus,
Remarks (if more than one line, use page 1	
Remarks (if more than one line, use page 1	age 2):
Remarks (if more than one line, use posterior	age 2):  -4573 On: Gate Valve  -trification is based on a This Certificate is only valid when signed by a DNV
Remarks (if more than one line, use portion of the product was marked: NV-OSL-11-	age 2):  -4573  On: Gate Valve  This Certificate is only valid when signed by a DNV surveyor.  and the product/system has the specification/standard or in tent No: R-1948
Remarks (if more than one line, use particles of the product was marked: NV-OSL-11-  This field is only to be filled in when the centre of the waste	Appendix and the product/system has the specification/standard or in ent No: R-1948 I 151 ISO 9001:2008  On: Gate Valve  This Certificate is only valid when signed by a DNV surveyor.  This Certificate is only valid when signed by a DNV surveyor.  For Det Norske Veritas AS
Remarks (if more than one line, use portion of the product was marked: NV-OSL-11-  This field is only to be filled in when the ce Manufacturing Survey Arrangement (MSA)  The undersigned manufacturer declares the been built and tested in accordance with the stated above and the conditions referred to Manufacturing Survey Arrangem Quality System Certificate No: Total Control of the product of th	age 2):  -4573  On: Gate Valve  This Certificate is only valid when signed by a DNV surveyor.  at the product/system has the specification/standard or in ent No: R-1948  151 ISO 9001:2008
The product was marked: NV-OSL-11-  This field is only to be filled in when the ce Manufacturing Survey Arrangement (MSA)  The undersigned manufacturer declares the been built and tested in accordance with the stated above and the conditions referred to Manufacturing Survey Arrangem Quality System Certificate No: The For Manufacturer:	Appendix and the product/system has the specification/standard or in ent No: R-1948 I 151 ISO 9001:2008  On: Gate Valve  This Certificate is only valid when signed by a DNV surveyor.  This Certificate is only valid when signed by a DNV surveyor.  For Det Norske Veritas AS
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## Certificate No OSL-11-4573

OSL-11-4370	
echnical data:	
emarks: 'he valve housing has been subjected to a hydrostatic pressure test, and the valve assembl bar. Holding time 5 minutes.	y to a seat leakage test to
bar. Holding time 5 minutes.	
Marking and certificate numbers for the different parts:	
Marking and Commence	
Drawings with dates of approval and/or type approval certificate number: DNV S-6000	
DNV S-6000	
	NO DAE 749 D31 MVA www.dnv.com

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