

## DET NORSKE VERITAS

Certificate No OSL-12-4345

## PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	82759
Purchaser:	CONSILIUM
Purchaser's order No.:	
The product is intended for	
Yard:	(TBD)
Yard No.:	
Name of vessel:	и зэ
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-LB, DB-100-SBX_, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 12045
	alayout van divamenta afe
Has been built and tested in accordance with the re	elevant requirements or:
Has been built and tested in accordance with the red DNV Rules for Classification: ☐ Ships☐ Other standard	☐ HSLC ☐ Naval ☐ Offshore
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DNV Rules for Classification:  ☐ Other standard  Remarks (if more than one line, use page 2):	☐ HSLC ☐ Naval ☐ Offshore
DNV Rules for Classification: Ships Other standard  Remarks (if more than one line, use page 2):  The product was marked: NV-OSL-12-4345  This field is only to be filled in when the certification is base Manufacturing Survey Arrangement (MSA).	On: Gate Valve  This Certificate is only valid when signed by a DNV surveyor.
DNV Rules for Classification: Ships Other standard  Remarks (if more than one line, use page 2):  The product was marked: NV-OSL-12-4345  This field is only to be filled in when the certification is base Manufacturing Survey Arrangement (MSA).  The undersigned manufacturer declares that the product/sy been built and tested in accordance with the specification/st stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-194	On: Gate Valve  This Certificate is only valid when signed by a DNV surveyor.
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DNV Rules for Classification: Ships Other standard  Remarks (if more than one line, use page 2):  The product was marked: NV-OSL-12-4345  This field is only to be filled in when the certification is base Manufacturing Survey Arrangement (MSA).  The undersigned manufacturer declares that the product/sy been built and tested in accordance with the specification/s stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-194 Quality System Certificate No: TI 151 ISO 900  For Manufacturer: Place: Oslo	On: Gate Valve  This Certificate is only valid when signed by a DNV surveyor.  ystem has standard  48 01:2008  For Det Norske Veritas AS  Place: Høvik

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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		

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