



PRODUCT CERTIFICATE

Manufacturer: **SKIPPER Electronics AS**  
Manufacturer's order No.:  
Purchaser:  
Purchaser's order No.:  
The product is intended for  
Yard: **( 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**  
Type designation: **SB-60-SA\_\_\_, DB-60-SA\_\_\_, SB-100-SB\_\_\_, DB-100-SB\_\_X\_,  
ETNSJB/ETNSLB-100mm\_\_\_**  
Intended purpose: **The gate valve may be used in conjunction with installation of  
speed log or echo sounder**  
Serial No(s): **13061**

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-13-4361**

On: **Gate Valve**

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 product/system has been built and tested in accordance with the specification/standard stated above and the conditions referred to in  
Manufacturing Survey Arrangement No: **R-1948**  
Quality System Certificate No: **TI 151 ISO 9001:2008**

For Manufacturer:

Place: **Oslo**

Date: **07.02.2013**

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**Anders Karlstad**  
Product Technician

This Certificate is only valid when signed by a DNV surveyor.

For **Det Norske Veritas AS**

Place:

Date:

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**Håkon Karlsen**  
Surveyor

Technical data:

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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.**

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Marking and certificate numbers for the different parts:

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Drawings with dates of approval and/or type approval certificate number:

**DNV S-6000**

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