



DET NORSKE VERITAS

Certificate No  
OSL-11-4519

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	77449
Purchaser:	LURSEN WERFT GmbH 28759 Bremen Germany
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-LA___, DB-60-SA___, SB-100-SB__X__, DB-100-SB___, ETNSJB/ETNSLB-100mm___
Intended purpose:	The gate valve may be used in conjunction with installation of speed log or echo sounder
Serial No(s):	11219
Has been built and tested in accordance with the relevant requirements of:	
DNV Rules for Classification:	<input checked="" type="checkbox"/> Ships <input checked="" type="checkbox"/> HSLC <input type="checkbox"/> Naval <input checked="" type="checkbox"/> Offshore
<input type="checkbox"/> Other standards:	

Remarks (if more than one line, use page 2):

The product was marked: **NV-OSL-11-4519**

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: **27.06.2011**

**Anders Karlstad**  
Product Technican

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

For Det Norske Veritas AS

Place: **Høvik**

Date: **2011-07-06**

**Nils Fredrik Broch**  
Principal Surveyor



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**