



DET NORSKE VERITAS

Certificate No  
OSL-11-4570

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	78501
Purchaser:	Tyrholm & Farstad AS 0193 Oslo Kongshavn
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__X__, DB-60-SA__, SB-100-LA__, 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):	11270
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-11-4570

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: 27.07.2011

Anders Karlstad  
Product Technician

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

For Det Norske Veritas AS

Place: Høvik

Date: 2011-08-12

Thomas R. Jacobsen  
Senior 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**