DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer:	**SKIPPER Electronics AS**
Manufacturer's order No.:	
Purchaser:	**TBD**
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___**
	The gate valve may be used in conjunction with installation of speed log or echo sounder
Intended purpose:	
Serial No(s):	**13338**

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-13-4638** On: **Gate Valve**

This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA).	This Certificate is only valid when signed by a DNV surveyor.
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-2164**	
Quality System Certificate No: **TI 151 ISO 9001:2008**	
	For **Det Norske Veritas AS**
For Manufacturer:	
Place: **Oslo**	Place:
Date: **08.10.2013**	Date:
Anders Karlstad	**Håkon Karlsen**
Product Technician	**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

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